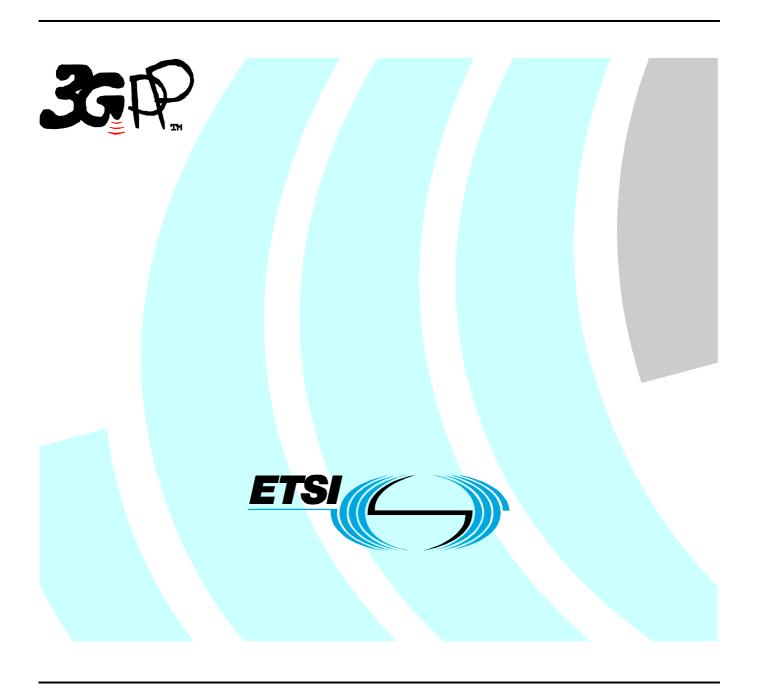
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Foreword

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

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

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.*

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

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

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

3 Definitions and abbreviations

3.1 Definitions

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

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

3.2 Abbreviations

Direct transfer

DT

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

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

DTCH Dedicated Traffic Channel FTM File tunnelling mode

HYB Hybrid

NAS Non-access stratum
OBW Occupied Bandwidth

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

the other orthogonal channels of a downlink.

PRACH Physical Randome Access Channel

PS Packet switching
RAB Radio Access Bearer
RB Radio Bearer

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

SCCPCH Secondary Common Control Physical Channel

SMS Short Message Service SRB Signalling RB SS System Simulator

SSD Source statistics descriptor

TC Turbo coding
TM Transparent mode

UL Uplink

UM Unacknowledgement mode

4 Common requirements of test equipment

Mobile conformance testing can be categorised into 3 distinct areas:

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

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

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

4.1 General Functional Requirements

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

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

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

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

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

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

4.2 Minimum performance levels

4.2.1 Supported Cell Configuration

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

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

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

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

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

4.2.1.1 Supported Channels for FDD Mode

4.2.1.1.1 Logical Channels

Logical Channel Minimum Number		Comments		
BCCH	1			
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			
Control Channels					
BCCH	1	Broadcast Control Channel: DL channel for broadcasting			
		system control information.			
СССН	1	Common Control Channel: Bi-directional channel for			
		transmitting control information between network and UEs.			
		This channel is commonly used by the UEs having no RRC			
		connection with the network and by the UEs using common			
		transport channels when accessing a new cell after cell			
		reselection.			
DCCH	4	Dedicated Control Channel: A point-to-point bi-directional			
		channel that transmits dedicated control information between			
		a UE and the network. This channel is established through			
		RRC connection setup procedure. 2 channels for RRC testing			
D0011		and 2 channels for NAS testing estimated.			
PCCH	1	Paging Control Channel: DL channel that transfers paging			
		information. This channel is used when the network does not			
		know the location cell of the UE, or, the UE is in the cell			
CHOOLI	4	connected state			
SHCCH	1	Shared Channel Control Channel: Bi-directional channel that			
		transmits control information for uplink and downlink shared channels between network and UEs. This channel is for TDD			
	т	only. raffic Channels			
DTCH					
DТСП	1	Dedicated Traffic Channel is a point-to-point channel, dedicated to one UE, for the transfer of user information. A			
		DTCH can exist in both UL and DL.			
СТСН	1	Common Traffic Channel is a point-to-multipoint unidirectional			
CTCIT	I	channel for transfer of dedicated user information for all or a			
		group of specified UEs.			
		Igroup or specified OES.			

4.2.1.2.2 Transport Channels

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

4.2.1.2.3 Physical Channels (3.84 Mcps option)

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

4.2.1.2.4 Physical Channels (1.28 Mcps option)

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

4.2.1.3 Support of T_{cell} timing offset

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

4.2.2 RF Performance

4.2.2.1 Frequency of Operation

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

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

4.2.2.2 Power Level Setting Accuracy

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

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

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

4.2.2.3 Uplink Power Control

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

4.2.2.4 Uplink Signal Handling

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

4.2.2.5 Uplink Sensitivity

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

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

4.2.3 Timers Tolerances

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

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

Where t_{delta} is 55 ms.

5 Reference Test Conditions

5.1 Test frequencies

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

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

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

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

5.1.1 FDD Mode Test frequencies

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

5.1.1.1 FDD reference test frequencies for Operating Band I

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

5.1.1.2 FDD reference test frequencies for Operating Band II

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

5.1.1.3 FDD reference test frequencies for Operating Band III

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

5.1.1.4 FDD reference test frequencies for Operating Band VI

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

5.1.2 TDD Mode Test frequencies

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

5.1.2.1 Standard TDD reference test frequencies (3.84 Mcps option)

	Ва	nd a	Ba	and 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			

5.1.2.2 Standard TDD reference test frequencies (1.28 Mcps option)

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

5.2 Radio conditions

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

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

5.2.1 Normal Propagation Condition

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

5.2.2 Static Propagation Condition

See [2] annex D for FDD.

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

5.2.3 Multi-Path Fading Propagation Conditions

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

5.2.4 Moving Propagation Conditions

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

5.2.5 Birth-Death propagation conditions

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

5.3 Standard test signals

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

5.4 Signal levels

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

5.4.1 Downlink Signal Levels

<FFS>

5.4.2 Uplink Signal Levels

<FFS>

6 Reference System Configurations

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

6.1 Simulated network environments

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

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

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

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

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

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

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

6.1.0a Default Master Information Block and Scheduling Block messages

6.1.0a.1 Grouping SIBs for testing

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

6.1.0a.2 SIB configurations

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

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

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

6.1.0a.3 SIB default schedule

Block 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

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

If the transport BCH blocks actually required for a SIB is less than the scheduled SEG_COUNT, the no_segment blocks shall be placed at the rest scheduled transport BCH blocks. In addition, the corresponding SEG_COUNT IE value in MIB or in SB1 shall be set to the number of transport BCH blocks actually required.

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

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

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

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

Defendance to other content information blocks	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	6
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	, , , , , , , , , , , , , , , , , , , ,
- CHOICE Value tag	Not Present
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	4
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 7
- Scheduling information	Dystom mormation Type 7
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_ROS	158
- SIB_POS offset info	50
- SIB_FOS dilset illid	2
- SIB_OFF	2
	Custom Information Tune 11
- SIB type SIBs only	System Information Type 11
- Scheduling information	Call Value to s
- 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	Cell Value tag
Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	36
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18

Contents of Scheduling Block 1 (3.84 Mcps TDD)

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

- SIB_OFF	2
- SIB_OTT - SIB type SIBs only	System Information Type 6
- Scheduling information	System information Type o
- CHOICE Value tag	Not Present
- SEG_COUNT	1
- SIB_REP	16 2
- SIB_POS	
- 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	29
- 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	13
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	54
- SIB_POS offset info	Not Present - use default
- SIB type SIBs only	System Information Type 14
- Scheduling information	, , , , , , , , , , , , , , , , , , , ,
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB POS	6
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18
SID typo GIDO GIIIy	System mornidation Type To

6.1.0a.4 SIB special schedules

6.1.0a.4.1 SIB schedule for two S-CCPCH or two PRACH (For FDD)

Table 1

France No.	0	_	4	_	0	10	40	4.4
Frame No.	0	2	4	6	8	10	12	14
REP-POS	0	1	2	3	4	5	6	7
Block Type	MIB	SB1	SB1		MIB	SIB1	SIB18	SIB2
Frame No.	16	18	20	22	24	26	28	30
REP-POS	8	9	10	11	12	13	14	15
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3		SIB4
Frame No.	32	34	36	38	40	42	44	46
REP-POS	16	17	18	19	20	21	22	23
Block Type	MIB	SB1	SB1	SIB5	MIB	SIB5	SIB5	SIB5
Frame No.	48	50	52	54	56	58	60	62
REP-POS	24	25	26	27	28	29	30	31
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB11	SIB11	SIB11
Frame No.	64	66	68	70	72	74	76	78
REP-POS	32	33	34	35	36	37	38	39
Block Type	MIB	SB1	SB1	SIB5	MIB	SIB5	SIB5	SIB5
		•		•	•			
Frame No.	80	82	84	86	88	90	92	94
REP-POS	40	41	42	43	44	45	46	47
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB3		SIB4
		•		•	•			
Frame No.	96	98	100	102	104	106	108	110
REP-POS	48	49	50	51	52	53	54	55
Block Type	MIB	SB1	SB1		MIB			
		•		•	•	•	•	
Frame No.	112	114	116	118	120	122	124	126
REP-POS	56	57	58	59	60	61	62	63
Block Type	MIB	SB1	SB1	SIB7	MIB	SIB12	SIB12	SIB12
						•	•	

SIB-repeat period (in frame)

Table 2

Block Type	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5	SIB7	SIB11	SIB12	SIB18
SIB Rep	8	16	128	128	64	64	128	32	128	128	128
Max. No of seg.	1	2	1	1	1	1	8	1	3	3	1

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)

	1 -	
- CN common GSM-MAP NAS system information	A1	
- GSM-MAP NAS system information		00 01H
- CN domain system information		
- CN domain identity		PS
- CHOICE CN Type		GSM-MAP
- CN domain specific NAS system information		
- GSM-MAP NAS system information		05 00H
- CN domain specific DRX cycle length coefficient		7
- CN domain identity		CS
- CHOICE CN Type		GSM-MAP
- CN domain specific NAS system information		
- GSM-MAP NAS system information		1E 01H
- CN domain specific DRX cycle length coefficient		7
- CN common GSM-MAP NAS system information	A2	
- GSM-MAP NAS system information	j ' <u>-</u>	00 80H, Note 1
- CN domain system information		oo oori, note i
		DC.
- CN domain identity		PS
- CHOICE CN Type		GSM-MAP
- CN domain specific NAS system information		
- GSM-MAP NAS system information		00 00H, Note 1
- CN domain specific DRX cycle length coefficient		7
- CN domain identity		cs
- CHOICE CN Type		GSM-MAP
- CN domain specific NAS system information		
- GSM-MAP NAS system information		1E 01H
- CN domain specific DRX cycle length coefficient		7
- UE Timers and constants in idle mode	A1, A2	
-T300		4000 milliseconds
-N300		3
-T312		10 seconds
- N312		1
- UE Timers and constants in connected mode		
- T301		Not Present (2000 milliseconds: default value)
- N301		Not Present (2: default value)
- T302		Not Present (2. default value)
- N302		Not Present (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)
		Not Present (4. default value)
- T311		
- 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 (1. default value)
- T310 - T317		
		Not Present (180 seconds: default value)
Note1 For Inter-RAT test cases GERAN and UTRAN	cells use	different LAC and RAC

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

Contents of System Information Block type 2

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

Contents of System Information Block type 3 (FDD)

- SIB4 indicator	TRUE		
- Cell identity	0000 0000 0000 0000 0000 0000 0001B		
- Cell selection and re-selection info			
- 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 _{barred}	Not present		
- Cell Reserved for operator use	Not reserved		
- Cell Reservation Extension	Not reserved		
- Access Class Barred List			
- Access Class Barred0	Not barred		
- Access Class Barred1	Not barred		
- Access Class Barred2	Not barred		
- Access Class Barred3	Not barred		
- Access Class Barred4	Not barred		
- Access Class Barred5	Not barred		
- Access Class Barred6	Not barred		
- Access Class Barred7	Not barred		
- Access Class Barred8	Not barred		
- Access Class Barred9	Not barred		
- Access Class Barred10	Not barred		
- Access Class Barred11	Not barred		
- Access Class Barred12	Not barred		
- Access Class Barred13	Not barred		
- Access Class Barred14	Not barred		
- Access Class Barred15	Not barred		

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

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

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

- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping Info	Not present
- Cell selection and reselection quality 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 _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	Not present

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

- 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
- S _{limit,ShearchRAT}	Not Present
- Qrxlevmin	-103 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	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
- 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	Common transport channels
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	400
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- 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	INOTHIA
- CHOICE TFCS representation	Complete reconfiguration
	Complete reconliguration
- TFCS complete reconfiguration information - CHOICE CTFC Size	2 h:t
	2 bit
- CTFC information	0
- Power offset information	0
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
 Power offset information 	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	11
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	The trooping
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-Channel Number	"1111'B
	The first/ leftmost bit of the bit string contains the most
1000 0 11	significant bit of the Assigned Sub-Channel Number.
- 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
	The first/ leftmost bit of the bit string contains the most
	significant bit of the Assigned Sub-Channel Number.
- ASC Setting	Not Present
- ASC Setting	Not i resent
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-Channel Number	'1111'B
	The first/ leftmost bit of the bit string contains the most
	significant bit of the Assigned Sub-Channel Number.
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-Channel Number	'1111'B
7.03igiled Odb Orlaimer Hamber	The first/ leftmost bit of the bit string contains the most
Dornistance cooling factor	significant bit of the Assigned Sub-Channel Number.
- Persistence scaling factor	0.0 ((1.00 (0)
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	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)
- CHOICE mode	FDD
- Primary CPICH TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	4
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
	0
- AICH transmission timing	U
- Secondary CCPCH system information	
- Secondary CCPCH info	FDD
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE (default value)
- Fixed or Flexible position	Flexible (default value)
- Timing offset	Not Present
	Absence of this IE is equivalent to default value 0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
	Normal
- CHOICE TFCI signalling	INOTHIA
- TFCI Field 1 information	Complete reconfiguration
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	1

- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	NOT 1 1636
- Power offset information	Not Present
- CTFC information	inot Pieseiit
	Not Present
- Power offset information	Not Present
- CTFC information	Not Decemb
- Power offset information	Not Present
- FACH/PCH information	(501)
- 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
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	IFALSE
	1 1 1 2 2
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
Dynamia Transport format information	
- Dynamic Transport format information	360
- RLC Size	360
- RLC Size - Number of TB and TTI List	
- RLC Size - Number of TB and TTI List - Number of Transport blocks	0
 - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks 	0 1
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List	0
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information	0 1 ALL
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval	0 1 ALL 10 ms
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding	0 1 ALL 10 ms Turbo
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute	0 1 ALL 10 ms Turbo 130
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size	0 1 ALL 10 ms Turbo 130 16bit
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity	0 1 ALL 10 ms Turbo 130 16bit 14 (for FACH)
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator	0 1 ALL 10 ms Turbo 130 16bit
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info	0 1 ALL 10 ms Turbo 130 16bit 14 (for FACH) FALSE
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info - CHOICE mode	0 1 ALL 10 ms Turbo 130 16bit 14 (for FACH) FALSE
- RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info	0 1 ALL 10 ms Turbo 130 16bit 14 (for FACH) FALSE

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

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

	<u>, </u>
- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- UE positioning related parameters	Not Present /REL-4/
- Primary CCPCH info	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	1,7,505
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- CHOICE TIDD option	3.84 Mcps TDD /REL-4/
- Timeslot number	14
	14
- PRACH Channelisation Code List - CHOICE SF	CEO.
	SF8
- Channelisation Code List	0/4
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- PNBSCH allocation	Not Present /REL-4/
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	
- ASC Settings	(ASC#0)
- CHOICE mode	TDD '
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
1	11 / I

l - CHOICE mode	İTDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	ITDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
 Available Channelisation codes indices 	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
	· ·
	10 9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	0.9 (for ASC#6)
- AC-to-ASC mapping - AC-to-ASC mapping table	
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping	6 (AC0-9)
 - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping 	6 (AC0-9) 5 (AC10)
 - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping 	6 (AC0-9) 5 (AC10) 4 (AC11)
 - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping 	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12)
 - AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping 	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH info	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1")
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present (empty)
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present (empty) 3.84 Mcps TDD
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present (empty) 3.84 Mcps TDD 1
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number - TFCI existence	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present (empty) 3.84 Mcps TDD
- AC-to-ASC mapping - AC-to-ASC mapping table - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2 nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option - Timeslot number	6 (AC0-9) 5 (AC10) 4 (AC11) 3 (AC12) 2 (AC13) 1 (AC14) 0 (AC15) TDD (no data) TDD 0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present (empty) 3.84 Mcps TDD 1

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

Type 1

Default midamble

4

Not Present 3.84 Mcps TDD

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

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

Complete reconfiguration

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

(PCH)

Common transport channels

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

Reference clause 6.10 Parameter Set

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

FALSE (FACH)

Common transport channels

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

Reference clause 6.10 Parameter Set ALL

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set 13 (for FACH)

FALSE (FACH)

Common transport channels

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

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

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

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

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

Access Comitics Class	I
- Access Service Class	(4.20 (10)
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
 Available SYNC_UL codes indices 	"11111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
 Available SYNC_UL codes indices 	"11111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"1111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- CHOICE TIDD option	
	1.28 Mcps TDD
- Available SYNC_UL codes indices	"1111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"1111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
 Available SYNC_UL codes indices 	"11111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"1111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	0.0 (10.7 (0.0110)
- AC-to-ASC mapping table	
- AC-to-ASC mapping table - AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10) 4 (AC11)
- AC-to-ASC mapping	
- 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	TDD
- CHOICE mode	TDD
- Offset	0
- Common timeslot info	
- 2 nd interleaving mode	Frame
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	1

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

0

1.28 Mcps TDD

0

Reference clause 6.10 Parameter Set

1.28 Mcps TDD

Default midamble

4

Not Present

1.28 Mcps TDD

Reference clause 6.10 Parameter Set

Addition

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

12 (for PCH)

(PCH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Not Present

ALL

Reference clause 6.10 Parameter Set

13 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Not Present ALL

Reference clause 6.10 Parameter Set

FALSE

TDD

1.28 Mcps TDD

0

Default midamble

8

Not Present

(16/1)

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

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

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

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

Talouta #	1
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
	IALOL
- PRACH system information list	
- PRACH system information	
- PRACH info	TDD
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Timeslot number	14
- PRACH Channelisation Code List	050
- 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
- 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
1 - Type of charmer county	INCICIONOC GIAUSE O. TO FATAINICIE! SEL

```
- Coding Rate
 - Rate matching attribute
 - CRC size
- RACH TFCS
- PRACH partitioning
- Access Service Class
- ASC Settings
 - CHOICE mode
  - CHOICE TDD option
   - Available Channelisation codes indices
   - CHOICE subchannel size
   - Available Subchannels
 - ASC Settings
 - CHOICE mode
   - CHOICE TDD option
   - Available Channelisation codes indices
   - CHOICE subchannel size
   - Available Subchannels
 - ASC Settings
 - CHOICE mode
  - CHOICE TDD option
  - Available Channelisation codes indices
   - CHOICE subchannel size
   - Available Subchannels
 - ASC Settings
 - CHOICE mode
  - CHOICE TDD option
  - Available Channelisation codes indices
   - CHOICE subchannel size
   - Available Subchannels
 - ASC Settings
 - CHOICE mode
  - CHOICE TDD option
  - 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
  - CHOICE TDD option
  - 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 period

- Repetition length

Individual timeslot infoCHOICE TDD option

```
Reference clause 6.10 Parameter Set
Reference clause 6.10 Parameter Set
Reference clause 6.10 Parameter Set
Not present
(ASC#0)
TDD
                    /REL-4/
3.84 Mcps TDD
Not Present (Default all)
Size1
null
(ASC#1)
TDD
3.84 Mcps TDD
                    /REL-4/
Not Present (Default all)
Size1
null
(ASC#2)
TDD
3.84 Mcps TDD
                    /REL-4/
Not Present (Default all)
Size1
null
(ASC#3)
TDD
3.84 Mcps TDD
                    /REL-4/
Not Present (Default all)
Size1
null
(ASC#4)
TDD
3.84 Mcps TDD
                    /REL-4/
Not Present (Default all)
Size1
null
(ASC#5)
TDD
Not Present (Default all)
Size1
null
(ASC#6)
TDD
3.84 Mcps TDD
                    /REL-4/
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
0
Not Present (MD "Frame")
Reference clause 6.10 Parameter Set
Reference clause 6.10 Parameter Set
Not Present (MD "1")
Not present
```

3.84 Mcps TDD

/REL-4/

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

1

Reference clause 6.10 Parameter Set

Type 1

Default midamble

4

Not Present

Reference clause 6.10 Parameter Set

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

Complete reconfiguration

Number of bits used must be enough to cover all

combinations of CTFC from clause 6.10.

Reference clause 6.10 Parameter Set

Not Present

(PCH)

Common transport channels

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Reference clause 6.10 Parameter Set

ALL

Reference clause 6.10 Parameter Set

12 (for PCH)

FALSE (FACH)

Common transport channels

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Reference clause 6.10 Parameter Set

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

13 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set 14 (for FACH)

FALSE

FALSE

- PICH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Timeslot number	0
 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
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

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

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- PRACH definition - Timeslot number - CHOICE TDD option - Timeslot number - PRACH Channelisation Code List - Channelisation Code List - Channelisation Code List - Channelisation Code - Midamble Shift and burst type - CHOICE TDD option - Midamble Configuration - Midamble Shift - FPACH Info - Timeslot number - Channelisation code - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of Transport Format information - Transmission Time Interval - Choice Logical Channel List - Semi-static Transport Format information - Transmission time interval - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Inmeslot number - (8/1) - 1.28 Mcps TDD /REL-4/ Default midamble - (8/1) - 1.28 Mcps TDD /REL-4/ Default midamble - (8/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16) - 1.28 Mcps TDD /REL-4/ Default midamble - (16/16)		
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- PRACH Channelisation Code List - Channelisation Code List - Channelisation Code - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift - FPACH info - Timeslot number - Channelisation code - Midamble Shift - FPACH info - Timeslot number - Channelisation code - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of Transport Iblocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - CRC size - RACH TFCS - CR Size - RACH TFCS - CHOICE Logical Channel List - Choice Logical Channel List - Common transport channels - Common Midamble - Midamble - Midamble - Mot Present - Common Midamble - Common Midamble - Midamble - Common transport - Common transport channels - Common transport - Common transport - Common transp		
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- Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble Shift - FPACH info - Timeslot number - Channelisation code - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift and burst type - CHOICE TDD option - Midamble Shift - WT - PNBSCH allocation Mode - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TB and TTI List - Number of TB and TTI List - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission Time Interval - CHOICE Logical Channel Loding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS 1.28 Mcps TDD /REL-4/ Common Midamble 8 Not present 1.28 Mcps TDD /REL-4/ Common Midamble 8 Not present - Callogour Allocation - Tas Mcps TDD /REL-4/ - Common Midamble 8 Not present - Callogour Allocation - Tas Mcps TDD /REL-4/ - Common Midamble 8 Not present - Callogour Allocation - Tas Mcps TDD /REL-4/ - Common Midamble 8 Not present - Common Midamble 8 Not present - Callogour Allocation - Tas Mcps TDD /REL-4/ - Common Midamble 8 Not present - Callogour Allocation - Tas Mcps TDD /REL-4/ - Common Midamble 8 Not present - Callogour Allocation - Tas Mcps TDD /REL-4/ - Common Midamble 8 Not present - Reference clause 6.10 Parameter Set Reference clau		(8/1)
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- Midamble Shift - FPACH info - Timeslot number - Channelisation code - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS Not present (16/16) 1.28 Mcps TDD /REL-4/ Common Midamble 8 Not Present /REL-4/ 15 Common transport channels Common transport channels Reference clause 6.10 Parameter Set		
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- Timeslot number - Channelisation code - Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble Configuration - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Reference clause 6.10 Parameter Set		Not present
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- Midamble Shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS - Midamble Allocation Mode - Midamble 8 Not present - Common Midamble 8 Not Present - Common transport channels - Common Midamble 8 Not present - Not Present - Common Midamble 8 Not present - Not Present / REL-4/ - Semi-static Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Reference clause 6.10 Parameter Set - Ref	- Timeslot number	
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- Midamble Allocation Mode - Midamble configuration - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS - Mot present 4 Not present / REL-4/ 15 Common Midamble 8 Not present / REL-4/ 15 Common transport channels Common transport channels Reference clause 6.10 Parameter Set		
- Midamble configuration - Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS - Mot Present - Not Present /REL-4/ 15 - Common transport channels - Reference clause 6.10 Parameter Set	- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Midamble Shift - WT - PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS Not Present - Not Present /REL-4/ 15 Common transport channels Reference clause 6.10 Parameter Set		Common Midamble
- WT - PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS 4 Not Present /REL-4/ 15 Common transport channels Reference clause 6.10 Parameter Set	 Midamble configuration 	8
- PNBSCH allocation - Transport Channel Identity - RACH 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 - RACH TFCS Not Present /REL-4/ 15 Common transport channels Reference clause 6.10 Parameter Set		Not present
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- 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 - Common transport channels Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Configured Reference clause 6.10 Parameter Set Configured Reference clause 6.10 Parameter Set		15
- 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 - RACH TFCS Reference clause 6.10 Parameter Set		
- 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 - RACH TFCS Reference clause 6.10 Parameter Set		Common transport channels
- Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS Reference clause 6.10 Parameter Set		
- Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS Reference clause 6.10 Parameter Set		
- CHOICE Mode - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS TDD Not Present Configured Reference clause 6.10 Parameter Set		
- Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS Not Present Configured Reference clause 6.10 Parameter Set		
- CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS Configured Reference clause 6.10 Parameter Set		'
- Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS Reference clause 6.10 Parameter Set		
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS Reference clause 6.10 Parameter Set		Configured
- Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS Reference clause 6.10 Parameter Set		
- Coding Rate - Rate matching attribute - CRC size - RACH TFCS Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not present		
- Rate matching attribute - CRC size - RACH TFCS Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not present		
- CRC size Reference clause 6.10 Parameter Set - RACH TFCS Not present		
- RACH TFCS Not present		
- FRACE partitioning		Not present
	- FRACH partitioning	I

- Access Service Class
- ASC Settings
- CHOICE mode
- CHOICE TDD option
- Available SYNC_UL codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- CHOICE TDD option
- Available SYNC_UL codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- CHOICE TDD option
- Available SYNC_UL codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- CHOICE TDD option
- Available SYNC_UL codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
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- Available SYNC_UL codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- CHOICE TDD option
- Available SYNC_UL codes indices
- CHOICE subchannel size
- Available Subchannels
- Access Service Class
- Persistence scaling factor
- AC-to-ASC mapping
- CHOICE mode
- Secondary CCPCH system information
- Secondary CCPCH system information
- Secondary CCPCH info
- CHOICE mode
- Offset
- Common timeslot info
- 2nd interleaving mode
- TFCI coding
- Puncturing limit
- Repetition period
- Repetition length
- Individual timeslot info
- CHOICE TDD option
- Timeslot number
- TFCI existence
- Midamble Shift and burst type
- CHOICE TDD option
- Midamble Allocation Mode

(ASC#0)

TDD

1.28 Mcps TDD

51

"111111111"

Size1 Null

(ASC#1)

TDD

1.28 Mcps TDD

"1111111111"

Size1 Null

(ASC#2)

TDD

1.28 Mcps TDD

"111111111"

Size1 Null (ASC#3)

TDD 1.28 Mcps TDD

"1111111111"

Size1 Null (ASC#4)

TDD 1.28 Mcps TDD

"111111[']1111"

Size1 Null (ASC#5) TDD

1.28 Mcps TDD

"111111111" Size1 Null

(ASC#6)

1.28 Mcps TDD "111111111"

Size1 Null

0.9 (for ASC#2)

0.9 (for ASC#3)

0.9 (for ASC#4)

0.9 (for ASC#5)

0.9 (for ASC#6)

Not Present TDD (no data)

TDD

0

Frame

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

1 0

1.28 Mcps TDD

0

Reference clause 6.10 Parameter Set

1.28 Mcps TDD Default midamble

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

4

Not Present 1.28 Mcps TDD

Reference clause 6.10 Parameter Set

Complete reconfiguration

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

12 (for PCH)

(PCH)

Common transport channels

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

TDD Not Present

ALL

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set 13 (for FACH)

(FACH)

Common transport channels

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

Not Present

ALL

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

TDD

1.28 Mcps TDD

0

Default midamble

8

Not Present

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

2

Not Present

Contents of System Information Block type 7 (FDD)

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

Contents of System Information Block type 7 (TDD)

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

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

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

	1 -	
- SIB12 indicator	A1, A2, A3	TRUE
- FACH measurement occasion info - Measurement control system information		Not Present
- Use of HCS		Not used
- Cell selection and reselection quality measure - Intra-frequency measurement system information	A1, A2, A3	CPICH RSCP
- Intra-frequency measurement identity	AS	Not Present
- Intra-frequency cell info list		Absence of this IE is equivalent to default value 1
- CHOICE intra-frequency cell removal		Not present
and the same of th		(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
D () "		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not Present
- Read SFN indicator		FALSE
- CHOICE mode		FDD
- Primary CPICH info		Defer to clause titled "Default pettings for call No.1
- Primary scrambling code		Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- Primary CPICH TX power		Not Present
- TX Diversity indicator		FALSE
- Cell Selection and Re-selection info		Not Present
Con Colodion and No colodion in		(The IE shall be absent as this is the serving cell)
- Intra-frequency cell id		2
- Cell info		
- Cell individual offset		Not present
		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not present
- Read SFN indicator		TRUE
- CHOICE mode		FDD
- Primary CPICH info		Defents alone with a UD efents and a self No. 0
- Primary scrambling code		Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4
- Primary CPICH TX power		Not Present
- TX Diversity indicator		FALSE
- Cell Selection and Re-selection info		Not present
		For neigbouring cell, if HCS is not used and all the
		parameters in cell selection and re-selection info are
		Default value, this IE is absent.
- Intra-frequency cell id		3
- Cell info		Same content as specified for Intra-frequency cell
		id=2 with the exception that value for Primary
		scrambling code shall be according to clause titled
- Intra-frequency cell id	A1, A3	"Default settings for cell No.3 (FDD)" in clause 6.1.4
- Intra-frequency ceri id - Cell info	A1, A3	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
- Intra-frequency cell id		8
- Cell info		Same content as specified for Intra-frequency cell
		id=2 with the exception that value for Primary
		scrambling code shall be according to clause titled
		"Default settings for cell No.8 (FDD)" in clause 6.1.4
- Intra-frequency cell id	A3	11
- Cell info		Same content as specified for Intra-frequency cell
		id=2 with the exception that value for Primary
		scrambling code shall be according to clause titled
		"Default settings for cell No.11 (FDD)" in clause 6.1.4
- Cells for measurement	A1, A2,	Not Present
John for modouroment	A3, A2,	1.00.1.100011.
I and the second	, ,	I

- Intra-frequency measurement quantity	A1, A2,	
- Filter coefficient	A3	Not present Absence of this IE is equivalent to the default value
0110105		0
- CHOICE mode - Measurement quantity		FDD CPICH RSCP
- Intra-frequency reporting quantity for RACH		Not Present
Reporting		Not i resent
- Maximum number of reported cells on RACH		Not Present
- Reporting information for state CELL_DCH		
 Intra-frequency reporting quantity 		
- Reporting quantities for active set cells		
- Cell synchronisation information reporting		FALSE
indicator		TALGE
- Cell identity reporting indicator		TRUE
- CHOICE mode		FDD
- CPICH Ec/N0 reporting indicator		FALSE
- CPICH RSCP reporting indicator		TRUE
- Pathloss reporting indicator		FALSE
- Reporting quantities for monitored set cells		
- Cell synchronisation information reporting		TRUE
indicator		
- Cell identity reporting indicator		TRUE
- CHOICE mode		FDD
- CPICH Ec/N0 reporting indicator - CPICH RSCP reporting indicator		FALSE TRUE
- Pathloss reporting indicator		FALSE
- Reporting quantities for detected set cells		Not Present
- Measurement reporting mode		
- Measurement Report Transfer Mode		Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode		Event trigger
- CHOICE report criteria		Intra-frequency measurement reporting criteria
- Intra-frequency measurement reporting		mile frequency modeline ment reporting entend
criteria		
- Parameters required for each event		3 kinds
- Intra-frequency event identity		1a
- Triggering condition 1 - Triggering condition 2		Not Present Monitored set cells
- Reporting Range Constant		5dB
- Cells forbidden to affect Reporting range		Not Present
- W		1.0
- Hysteresis		0.0
- Threshold Used Frequency		Not Present
Reporting deactivation threshold Replacement activation threshold		2 Not Present
- Time to trigger		640
- Amount of reporting		4
- Reporting interval		4000
- Reporting cell status		Depart all within active at and/an acceptance
- CHOICE reported cell		Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells		3
- Intra-frequency event identity		1b
- Triggering condition 1		Active set cells
- Triggering condition 2		Not Present
Triggering condition 2Reporting Range Constant		5dB
Triggering condition 2Reporting Range ConstantCells forbidden to affect Reporting range		5dB Not Present
 Triggering condition 2 Reporting Range Constant Cells forbidden to affect Reporting range W 		5dB Not Present 1.0
Triggering condition 2Reporting Range ConstantCells forbidden to affect Reporting range		5dB Not Present
 Triggering condition 2 Reporting Range Constant Cells forbidden to affect Reporting range W Hysteresis Threshold Used Frequency Reporting deactivation threshold 		5dB Not Present 1.0 0.0
 Triggering condition 2 Reporting Range Constant Cells forbidden to affect Reporting range W Hysteresis Threshold Used Frequency Reporting deactivation threshold Replacement activation threshold 		5dB Not Present 1.0 0.0 Not Present Not Present Not Present Not Present
 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 		5dB Not Present 1.0 0.0 Not Present Not Present Not Present Not Present 640
 Triggering condition 2 Reporting Range Constant Cells forbidden to affect Reporting range W Hysteresis Threshold Used Frequency Reporting deactivation threshold Replacement activation threshold 		5dB Not Present 1.0 0.0 Not Present Not Present Not Present Not Present

- 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
- Intra-frequency event identity		1c
- Triggering condition 1		Not Present
- Triggering condition 2		Not Present
- Reporting Range Constant		Not Present
- Cells forbidden to affect Reporting range		Not Present
- W		Not Present 0.0
HysteresisThreshold Used Frequency		Not Present
- Reporting deactivation threshold		Not Present
- Replacement activation threshold		3
- Time to trigger		640
- Amount of reporting		4
- Reporting interval		4000
- Reporting cell status		
- CHOICE reported cell		Report cell within active set and/or monitored set
		cells on used frequency
- Maximum number of reported cells		3
- Inter-frequency measurement system	A1, A2	
information		
- Inter-frequency cell info list		
- CHOICE Inter-frequency cell removal		Not present
		(This IE shall be ignored by the UE for SIB11)
 New inter-frequency cells 		
 Inter frequency cell id 		4
- Frequency info		
- CHOICE mode		FDD
- UARFCN uplink(Nu)		Not present
		Absence of this IE is equivalent to apply the default
		duplex distance defined for the operating frequency
LIADEON I I' I (ALI)		according to 25.101
- UARFCN downlink(Nd)		Reference to table 6.1.2 for Cell 4
- Cell info		Not propert
- Cell individual offset		Not present
Deference time difference to call		Absence of this IE is equivalent to default value 0dB
 Reference time difference to cell Read SFN indicator 		Not present FALSE
- CHOICE mode		FDD
- Primary CPICH info		100
- Primary scrambling code		Refer to clause titled "Default settings for cell No.4
1 milary columning code		(FDD)" in clause 6.1.4
- Primary CPICH Tx power		Not present
- TX Diversity Indicator		FALSE
- Cell Selection and Re-selection Info		Not present (same values as for serving cell applies)
- Inter frequency cell id		5
- Frequency info		Not Present
1 7 -		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
0.114		"Default settings for cell No.6 (FDD)" in clause 6.1.4
- Cell for measurement		Not present
- Inter-RAT measurement system information	A1, A3	Not Present
- Inter-RAT measurement system	A2	
information		
- Inter-RAT cell info list]	

- CHOICE Inter-RAT cell removal		Not Present (This IE shall be ignored by the UE for SIB11)
- New inter-RAT cells		(This is shall be ignored by the OE for Sib (1)
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
9,		GSIVI
- GSM - Cell individual offset		
		0
- Cell selection and re-selection info		Not Present
- BSIC		D (
- Base transceiver Station Identity Code		Reference to table 6.1.10 for Cell 9
(BSIC)		
- Band indicator		According to PICS/PIXIT
- BCCH ARFCN		Reference to table 6.1.10 for Cell 9
- Inter-RAT cell id		10
- CHOICE Radio Access Technology		GSM
- GSM		
- Cell individual offset		0
 Cell selection and re-selection info 		Not Present
- BSIC		
 Base transceiver Station Identity Code 		Reference to table 6.1.10 for Cell 10
(BSIC)		
- Band indicator		According to PICS/PIXITs
- BCCH ARFCN		Reference to table 6.1.10 for Cell 10
- Cell for measurement		Not present
- Traffic volume measurement system	A1, A2,	Not Present
information	A3	

Condition	Explanation
A1	FDD cell environment
A2	FDD/GSM inter-RAT cell environment
A3	FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency
	cells)

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

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

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

		Ţ
- SIB 12 Indicator	A1, A2	TRUE
- FACH measurement occasion info		Not Present
- Measurement control system information		
- Use of HCS		Not used
- Cell selection and reselection quality measureCell		(no data)
- Intra-frequency measurement system information	A1, A2	(i.e data)
- Intra-frequency measurement identity	711,712	Not Present
- intra-frequency measurement identity		Absence of this IE is equivalent to default value 1
- Intra-frequency cell info list		Absence of this in is equivalent to default value i
- CHOICE intra-frequency cell removal		Not present
- Of IOIOE intra-frequency centremoval		
Navy intra francisco acida		(This IE shall be ignored by the UE for SIB11)
- New intra-frequency cells		
- Intra-frequency cell id		
- Cell info		
- Cell individual offset		Not present
		Absence of this IE is equivalent to default value 0dB
 Reference time difference to cell 		Not Present
- Read SFN Indicator		FALSE
- CHOICE mode		TDD
- Primary CCPCH info		
- Cell parameters ID		Reference clause 6.1.4 Default settings for cell
- Primary CCPCH TX power		Not Present
- Timeslot list		Not Present
- CHOICE TDD option		
- 3.84 Mcps TDD		
- Timeslot number		Not Present
- Burst type		Not Present
- Burst type		Not Present

L 400M TDD	1	1
- 1.28 Mcps TDD		
- Timeslot number		Not Present
- Cell Selection and Re-selection info		Not Present
		(The IE shall be absent as this is the serving cell)
- Cell for measurement	A1, A2	Not Present
- Intra-frequency measurement quantity	A1, A2	
- Filter coefficient		Not present
		Absence of this IE is equivalent to the default value 0
- CHOICE mode		TDD
- Measurement quantity list		
 Measurement quantity 		P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH		Not Present
Reporting		
- Maximum number of reported cells on RACH		Not Present
- Reporting information for state CELL_DCH		
- Intra-frequency reporting quantity		
- Reporting quantities for active set cells		
 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		7,202
- Cell synchronisation information reporting		FALSE
indicator		7,202
- Cell identity reporting indicator		TRUE
- CHOICE mode		TDD
- Timeslot ISCP reporting indicator		FALSE
- Proposed TSGN reporting required		FALSE
- P-CCPCH RSCP reporting indicator		TRUE
- Pathloss reporting indicator		FALSE
- Reporting quantities for detected set cells		Not Present
- Measurement reporting mode		Not i lesent
- Measurement Report Transfer Mode		Acknowledged mode RLC
- Periodical Reporting / Event Trigger Reporting		Event trigger
Mode		Event trigger
-CHOICE report criteria		
Intra-frequency measurement reporting criteria Parameters required for each event		
- Intra-frequency event identity		10
		1g
- Triggering condition1		Not Present Not Present
- Triggering condition2		
- 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		Net Present
- Replacement activation threshold		Not Present
- Time to trigger		640
- Amount of reporting		4
- Reporting interval		4000
- Reporting cell status		Depart will write a set of the se
- CHOICE reported cells		Report cell within active set and/or monitored cells on
Marine and the H		used frequency
- Maximum number of reported cells	A A A A	3
- Inter-frequency measurement system information	A1, A2	

- Inter-frequency cell info list	I	
- CHOICE Inter-frequency cell removal		Not present
- Official inter-frequency cell removal		(This IE shall be ignored by the UE for SIB11)
- New inter-frequency cells		(This it shall be ignored by the Ot for Sibir)
- Inter frequency cell id		4
		4
- Frequency info		TDD
- CHOICE mode		TDD
- UARFCN (Nt)		Reference to table 6.1.2 for Cell 4
- Cell info		
- Cell individual offset		Not present
5 4 14 14 14		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not present
- Cell individual offset		Not present
		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not present
- Read SFN indicator		FALSE
- CHOICE mode		TDD
- Primary CCPCH info		Refer to clause titled "Default settings for cell No.4
		(TDD)" in clause 6.1.4
- Primary CCPCH Tx power		Not present
- TX Diversity Indicator		FALSE
- Cell Selection and Re-selection Info		Not present (same values as for serving cell applies)
- Inter frequency cell id		5
- Frequency info		Not Present
		Absence of this IE is equivalent to value of the previous
		"frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell id=4
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default settings
		for cell No.5 (TDD)" in clause 6.1.4
- Inter frequency cell id		6
- Frequency info		Not Present
. requestion mile		Absence of this IE is equivalent to value of the previous
		"frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell id=4
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default settings
		for cell No.6 (TDD)" in clause 6.1.4
- Cell for measurement		Not present
	A1	Not Present
- Inter-RAT measurement system information		INOT Present
- Inter-RAT measurement system information	A2	
- Inter-RAT cell info list		Not Droppet
- CHOICE Inter-RAT cell removal		Not Present
N DAT III		(This IE shall be ignored by the UE for SIB11)
- New inter-RAT cells		
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
- GSM		
- Cell individual offset		0
- Cell selection and re-selection info		Not Present
- BSIC		
- Base transceiver Station Identity Code (BSIC)		Reference to table 6.1.10 for Cell 9
- Band indicator		According to PICS/PIXIT
- BCCH ARFCN		Reference to table 6.1.10 for Cell 9
- Inter-RAT cell id		10
- CHOICE Radio Access Technology		GSM
- GSM		
- Cell individual offset		0
- Cell selection and re-selection info		Not Present
- BSIC		
- Base transceiver Station Identity Code (BSIC)		Reference to table 6.1.10 for Cell 10
- Band indicator		According to PICS/PIXITs
- BCCH ARFCN		Reference to table 6.1.10 for Cell 10
- Cell for measurement		Not present
- Traffic volume measurement system information	A1, A2	Not Present
		ı

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

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

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

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

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

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

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

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

- FACH measurement occasion info	Not Present
 Measurement control system information 	
- Use of HCS	Not used
- Cell selection and reselection quality measure	(no data)
- Intra-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	ANOI-41
	T D D
- NAS (ANSI-41) system information	T.B.D
- CN domain specific DRX cycle length coefficient	7
- CN Domain system information	For Circuit-Switched domain
- CN domain identity	cs
- CHOICE CN Type	ANSI-41
- CN domain specific NAS system information	
- NAS (ANSI-41) system information	T.B.D
- CN domain specific DRX cycle length	7
coefficient	
 UE timers and constants in idle mode 	
- T300	400 milliseconds
- N300	3
- T312	10 seconds
- N312	200
- Capability update requirement	
- UE radio access FDD capability update	TRUE
requirement	1

 UE radio access TDD capability update 	FALSE
requirement	
- System specific capability update requirement	Not Present
list	

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

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

Contents of System Information Block type 16

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

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

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

Contents of System Information Block type 18

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

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

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

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

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	-5 dB
- Primary CCPCH info	Not Present
	Not i lesent
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
	15
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
	300
- Number of TB and TTI List	,
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
	16
- CRC size	10
- RACH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Cain Factor
	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
 Power offset information 	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	11
- Gain factor ßd	15
- Reference TFC ID	
	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-Channel Number	'1111'B
- Assigned Sub-Charillet Nutribet	
	The first/ leftmost bit of the bit string contains the most
1000 0 11	significant bit of the Assigned Sub-Channel Number.
- ASC Setting	Not Present

- ASC Setting

- CHOICE mode

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

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

2 bit

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- 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 - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info - CHOICE mode - Channelisation code - Number of PI per frame - STTD indicator - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor
- Code number - Pilot symbol existence - TFCI existence
- Fixed or Flexible position
- 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 - TFC information - TFC information - TFC 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

- Transmission time interval

- Semi-static Transport Format information

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

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

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

<FFS>

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

<FFS>

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

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

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

<FFS>

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

<FFS>

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

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

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

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	-5 dB
- Primary CCPCH info	Not Present
	Not i lesent
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
 Number of TB and TTI List 	
 Number of Transport blocks 	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	Configured
	20
- 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	Homai
	Complete reconfiguration
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	11
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-Channel Number	'1111'B
	The first/ leftmost bit of the bit string contains the most
	significant bit of the Assigned Sub-Channel Number.
- ASC Setting	Not Present
	•

- ASC Setting

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

- CHOICE CTFC Size

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

2 bit

- CTFC information	10
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	Not i lesent
- TFS	(PCH)
- CHOICE Transport channel type - Dynamic Transport format information	Common transport channels
- RLC Size	240
	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	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
- PICH info	500
- CHOICE mode	FDD
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	5
- Pilot symbol existence	FALSE
- TFCI existence	
	TRUE (default value)
- Fixed or Flexible position	
	Flexible (default value)
- Timing offset	Not Present
	Absence of this IE is equivalent to default value 0
- TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	2 bit
OTEO: ((:	

CHOICE CTFC Size
CTFC information
Power offset information
CTFC information
Power offset information

- CTFC information

- Power offset information

Not Present

1

Not Present

2

Not Present

- FACH/PCH information	<u> </u>
- FACH/PCH INIOIMATION	(EACH)
	(FACH) Common transport channels
- CHOICE Transport channel type - Dynamic Transport format information	Common transport channels
- Byriamic Transport format information - RLC Size	168
- Number of TB and TTI List	100
- Number of Transport blocks	0
- Number of Transport blocks	1 FDD
- CHOICE Mode	' = =
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	40
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
 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	Not Present
- Secondary CCPCH system information	ation
- Secondary CCPCH info	(SCCPCH including two FACHs)
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- IFCI existence	TDLIE (defective)
Fixed on Flexible position	TRUE (default value)
- Fixed or Flexible position	
	Flexible (default value)
- Timing offset	90
- TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration	
- CHOICE CTFC Size	4 bit
 CTFC information 	0
 Power offset information 	Not Present
- CTFC information	1
 Power offset information 	Not Present
- CTFC information	2
 Power offset information 	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format inform	ation
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format info	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Type of channel coding - Coding Rate	1/2
 Rate matching attribute CRC size 	220 16 bit
- Transport Channel Identity	16 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format inform	
- 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 info	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
 Rate matching attribute 	130

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

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

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

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

Contents of Scheduling Block 1 (FDD)

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

Contents of System Information Block type 5 (FDD)

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

 - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number
 ASC Setting ASC Setting CHOICE mode Available signature Start Index Available signature End Index Assigned Sub-Channel Number
 ASC Setting ASC Setting CHOICE mode Available signature Start Index Available signature End Index Assigned Sub-Channel Number
Persistence scaling factor AC-to-ASC mapping table AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping CHOICE mode Primary CPICH TX power Constant value PRACH power offset Power Ramp Step Preamble Retrans Max RACH transmission parameters Mmax NB01min NB01max AICH info Channelisation code STTD indicator
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor
- Code number - Pilot symbol existence - TFCI existence

- Fixed or Flexible position

- CHOICE TFCI signalling

TFCI Field 1 informationCHOICE TFCS representation

- CHOICE CTFC Size

- TFCS complete reconfiguration information

- Timing offset

- TFCS

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

2 bit

- CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - Number of Transport blocks
 - CHOICE Mode - CHOICE Logical Channel List
 - Semi-static Transport Format information - Transmission time interval - Type of channel coding
 - Coding Rate
 - Rate matching attribute
 - CRC size
- Transport Channel Identity
- CTCH indicator
- PICH info
- CHOICE mode
- Channelisation code
- Number of PI per frame
- STTD indicator
- Secondary CCPCH info
- CHOICE mode
- Secondary scrambling code
- STTD indicator - Spreading factor - Code number
- Pilot symbol existence
- TFCI existence
- Fixed or Flexible position
- 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
- FACH/PCH information
- CHOICE Transport channel type
- Dynamic Transport format information
- RÍ C Size
- Number of TB and TTI List
- Number of Transport blocks
- Number of Transport blocks
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval

Not Present

75

Not Present

(PCH)

Common transport channels

240

0 FDD ALL

10 ms Convolutional 1/2 230

16 bit

12 (for PCH) **FALSE**

FDD 2 18 **FALSE**

(SCCPCH including two FACHs)

FDD Not Present **FALSE** 64 **FALSE**

TRUE (default value)

Flexible (default value)

Not Present

Absence of this IE is equivalent to default value 0

Normal

Complete reconfiguration

4 bit 0

Not Present

Not Present

Not Present

Not Present

Not Present

(FACH)

Common transport channels

168

0 1

2

FDD ALL

10 ms

F 13 34.106 Version 5.2.0 Release 5	70
- Type of channel coding - Coding Rate - Rate matching attribute	Convo 1/2 220
CRC sizeTransport Channel IdentityCTCH indicatorTFS	16 bit 13 (fo FALS (FACI
- CHOICE Transport channel type - Dynamic Transport format information	Comr
RLC SizeNumber of TB and TTI List	360
 Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List Semi-static Transport Format information 	0 1 FDD ALL
- Transmission time interval - Type of channel coding - Rate matching attribute - CRC size - Transport Channel Identity	10 ms Turbo 130 16bit 14 (fo
- CTCH indicator - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence	FALS (SCC FDD Not P FALS 64 2 FALS
- TFCI existence	TRUE
- Fixed or Flexible position	Flexib
- Timing offset - TFCS	90
- CHOICE TFCI signalling - TFCI Field 1 information	Norm
- CHOICE TFCS representation - TFCS complete reconfiguration information - CHOICE CTFC Size - CTFC information	Comp 4 bit 0
- Power offset information - CTFC information	Not P
 Power offset information CTFC information Power offset information 	Not P 2 Not P
- Power offset information - CTFC information - Power offset information - CTFC information	3 Not P
- Power offset information - FACH/PCH information	Not P
- TFS - CHOICE Transport channel type - Dynamic Transport format information	(FACI Comr
- RĹC Size - Number of TB and TTI List	168
 Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List 	0 1 2 FDD ALL
- Semi-static Transport Format information - Transmission time interval	10 ms

- Type of channel coding

- Rate matching attribute

- Transport Channel Identity

- Coding Rate

- CTCH indicator

- CRC size

```
olutional
    or FACH)
    SE
     CH)
     mon transport channels
    าร
    or FACH)
    CPCH including two FACHs)
    Present
    SE
    SE
    E (default value)
    ible (default value)
    nal
     plete reconfiguration
    Present
     Present
    Present
    Present
     Present
     H)
     mon transport channels
10 ms
Convolutional
1/2
220
16 bit
16 (for FACH)
```

FALSE

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

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

<FFS>

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

<FFS>

6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

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

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

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

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

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

Default settings for cell No.1 (TDD):

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

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

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

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

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

Cell No.2

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

Cell identity	0000 0000 0000 0000 0000 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	A1, A2, A3	
	AS	
- New intra-frequency cells - Intra-frequency cell id - Cell info		2 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
- Intra-frequency cell id - Cell info		clause 6.1.4 1 Same content as specified for Intra- frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- Intra-frequency cell id - Cell info		3 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	A1, A3	7 Same content as specified for Intra- frequency cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info		Same content as specified for Intra- frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info	A3	11 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.11 (FDD)" in clause 6.1.4
- Inter-frequency measurement system information	A1, A2	
- 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		6 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
- Inter-RAT cell info list	A2	

- New inter-RAT cells	
- Inter-RAT cell id	9
- CHOICE Radio Access Technology	GSM
- GSM	Same content as specified for inter-RAT cell
	id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-RAT cell id	10
- CHOICE Radio Access Technology	GSM
- GSM	Same content as specified for inter-RAT cell
	id=10 in SIB11 for Cell 1 in sub-clause
	6.1.0b

Condition	Explanation	
A1	FDD cell environment	
A2	FDD/GSM inter-RAT cell environment	
A3	FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency	
	cells)	

Default settings for cell No.2 (TDD):

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

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

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

Cell No.3

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

Cell identity	0000 0000 0000 0000 0000 0011B
URA identity	0000 0000 0000 0010B

Default settings for cell No.3 (FDD):

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

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

- Intra-frequency measurement system information	A1, A2, A3	
- New intra-frequency cells - Intra-frequency cell id - Cell info		3 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4
- Intra-frequency cell id - Cell info		Same content as specified for Intra-frequency cell id=2 (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- Intra-frequency cell id - Cell info		Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info	A1, A3	7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info		8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info	A3	11 Same content as specified for Intra-frequency cell id=11 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-frequency measurement system information	A1, A2	
- New inter-frequency cells - Inter frequency cell id - Frequency info		4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 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		5 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id - Frequency info		6 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter-RAT cell info list	A2	
- New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i>		9 GSM

- GSM	Same content as specified for inter-RAT cell
lates DAT sellid	id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-RAT cell id	10
- CHOICE Radio Access Technology	GSM
- GSM	Same content as specified for inter-RAT cell
	id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b

Condition	Explanation
A1	FDD cell environment
A2	FDD/GSM inter-RAT cell environment
A3	FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency
	cells)

Default settings for cell No.3 (TDD):

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

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

- Intra-frequency measurement system	
information	
- New intra-frequency cells	
- Intra-frequency cell id	3
- Cell info	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.3
Intro frequency cell id	(TDD)" in clause 6.1.4
- Intra-frequency cell id - Cell info	Come content as appointed for Intra frequency cell id—2
- Cell IIIIO	Same content as specified for Intra-frequency cell id=2 (neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b
	with the exception that value for Primary scrambling code
	shall be according to clause titled "Default settings for cell
	No.1 (TDD)" in clause 6.1.4
- Intra-frequency cell id	2
- Cell info	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	7
- Cell info	Same content as specified for Intra-frequency cell id=7 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info	8
- Cell Inio	Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b
	SIDITION Cell I III sub-clause 0.1.00
- 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
O-II into	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id	5
- Frequency info	Not Present
1 requeries into	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=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
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=6 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b

Cell No.4

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

Cell identity	0000 0000 0000 0000 0000 0100B
URA identity	0000 0000 0000 0010B

Default settings for cell No.4 (FDD):

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

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

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

	1	
- Frequency info		Not Present
		Absence of this IE is equivalent to value of the
		previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency
		cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b
		with the exception that value for Primary
		scrambling code shall be according to clause
		titled "Default settings for cell No.7 (FDD)" in
		clause 6.1.4
- Inter-frequency cell id		8
•		Not Present
- Frequency info		1.01.1.000
		Absence of this IE is equivalent to value of the
Call info		previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency
		cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b
		with the exception that value for Primary
		scrambling code shall be according to clause
		titled "Default settings for cell No.8 (FDD)" in
		clause 6.1.4
- Inter-RAT cell info list	A2	
- New inter-RAT cells		
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
- GSM		Same content as specified for inter-RAT cell
		id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-RAT cell id		10
- CHOICE Radio Access Technology		GSM
- GSM		Same content as specified for inter-RAT cell
		id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b
		l .

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

Default settings for cell No.4 (TDD):

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

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

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

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

Cell No.5

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

Cell identity	0000 0000 0000 0000 0000 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	A1, A2	
- New intra-frequency cells - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info - Intra-frequency cell id - Cell info		Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in 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 4 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4
- Inter-frequency measurement system information	A1, A2	
- New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN uplink(Nu) - UARFCN downlink(Nd) - Cell info		Not present Absence of this IE is equivalent to apply the default duplex distance defined for the operating frequency according to 25.101 Reference to table 6.1.2 for Cell 1 Same content as specified for Inter-frequency cell
- Inter-frequency cell id - Frequency info - Cell info		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 2 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default"
- Inter-frequency cell id - Frequency info - Cell info		settings for cell No.2 (FDD)" in clause 6.1.4 3 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default"
- Inter-frequency cell id - Frequency info - Cell info	A1	settings for cell No.3 (FDD)" in clause 6.1.4 7 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4

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

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

Default settings for cell No.5 (TDD):

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

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

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

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

Cell No.6

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

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

Default settings for cell No.6 (FDD):

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

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

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

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

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

Default settings for cell No.6 (TDD):

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

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

- Intra-frequency measurement system	
information	
- New intra-frequency cells	
- Intra-frequency cell id	6
- Cell info	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.6
	(TDD)" in clause 6.1.4
- Intra-frequency cell id	4
- Cell info	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.4 (TDD)" in
	clause 6.1.4
- Intra-frequency cell id	5
- Cell info	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.5 (TDD)" in
	clause 6.1.4
	Clause 0.1.4
- Inter-frequency measurement system	
information	
- New inter-frequency cells	
- Inter-frequency cell id	1
- Frequency info	Deference to table C.4.7 for Call 4
- UARFCN downlink(Nt) - Cell info	Reference to table 6.1.7 for Cell 1
- Cell IIIIO	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.1 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	2
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.2 (TDD)" in
1	clause 6.1.4
- Inter-frequency cell id	3 Not Present
- Frequency info	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.3 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	7
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
Call info	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	8
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.

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

Cell No.7

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

Cell identity	0000 0000 0000 0000 0000 0000 0111B
URA identity	0000 0000 0000 0100B

Default settings for cell No.7 (FDD):

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

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

- Intra-frequency measurement system	A1,	
information	А3	
Now intra frequency cells		
New intra-frequency cells Intra-frequency cell id		7
- 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		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		100.1 (FDD) III clause 6.1.4
- 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		8
- Cell info		Same content as specified for Intra-frequency cell id=8 in
- Intra-frequency cell id	A3	SIB11 for Cell 1 in sub-clause 6.1.0b
- Cell info	Α3	Same content as specified for Intra-frequency cell id=11 in
		SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-frequency measurement system	A1	
information		
New inter frequency calls		
New inter-frequency cells Inter frequency cell id		4
- Frequency info		Same content as specified for Inter-frequency cell id=4 in
		SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info		Same content as specified for Inter-frequency cell id=4 in
		SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id		5
- Frequency info		Same content as specified for Inter-frequency cell id=5 in
- Cell info		SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell IIIIO		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

Condition	Explanation
A1	FDD cell environment
A2	FDD/GSM inter-RAT cell environment
A3	FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency
	cells)

Default settings for cell No.7 (TDD):

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

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

- Intra-frequency measurement system				
information				
New intra fraguency calls				
New intra-frequency cells Intra-frequency cell id	7			
- Initia-frequency cell id	Same content as specified for Intra-frequency cell id=1			
- Gen inio	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with			
	the exception that value for Primary scrambling code shall			
	be according to clause titled "Default settings for cell No.7			
	(TDD)" in clause 6.1.4			
- Intra-frequency cell id	Ì			
- 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			
Intro fraguancy call id	No.1 (TDD)" in clause 6.1.4 2			
- 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	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	8			
- Cell info	Same content as specified for Intra-frequency cell id=8 in			
	SIB11 for Cell 1 in sub-clause 6.1.0b			
Inter-frequency measurement system				
information				
- New inter-frequency cells				
- Inter frequency cell id	4			
- Frequency info	Same content as specified for Inter-frequency cell id=4 in			
- Cell info	SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=4 in			
- Cell Into	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			
- 1,	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			
Oall inte	SIB11 for Cell 1 in sub-clasue 6.1.0b			
- Cell info	Same content as specified for Inter-frequency cell id=6 in			
	SIB11 for Cell 1 in sub-clasue 6.1.0b			

Cell No.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	A1,	
information	A3	
- 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		(FDD) III clause 6.1.4
- Cell info		Same content as specified for Intra-frequency cell id=2
		(neighbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b
		with the exception that value for Primary scrambling code
		shall be according to clause titled "Default settings for cell
		No.1 (FDD)" in clause 6.1.4
- Intra-frequency cell id		2
- Cell info		Same content as specified for Intra-frequency cell id=2 in
		SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id		3
- Cell info		Same content as specified for Intra-frequency cell id=3 in
1.4. 6		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
- Intra-frequency cell id	A3	SIB11 for Cell 1 in sub-clause 6.1.0b
- Cell info	7.5	Same content as specified for Intra-frequency cell id=11 in
		SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-frequency measurement system	A1	
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
- 0611 11110		SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id		6
- Frequency info		Same content as specified for Inter-frequency cell id=6 in
1		SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info		Same content as specified for Inter-frequency cell id=6 in
		SIB11 for Cell 1 in sub-clasue 6.1.0b

Condition	Explanation	
A1	FDD cell environment	
A2	FDD/GSM inter-RAT cell environment	
A3	FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency	
	cells)	

Default settings for cell No.8 (TDD):

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

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

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

Cell No.9

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

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

Default settings for cell No.9 (GSM):

See table 6.1.10

Cell No.10

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

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

Default settings for cell No.10 (GSM):

See table 6.1.10

Cell No.11

The contents of SYSTEM INFORMATION BLOCK TYPE 1 to 16 messages for cell No.11 are identical to those of cell No.1 with the following exceptions:

Cell identity	0000 0000 0000 0000 0000 1011B
URA identity	0000 0000 0000 0010B

Default settings for cell No.11 (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	500

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

- Intra-frequency measurement system	A3	
information	7.0	

- New intra-frequency cells		
- Intra-frequency cell id		11
- 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.11 (FDD)" in clause 6.1.4
- Intra-frequency cell id		(FDD) III clause 6.1.4
- 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
Intro frequency coll id		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 IIIIO		cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id		7
- Cell info		Same content as specified for Intra-frequency
		cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b
 Intra-frequency cell id 		8
- Cell info		Same content as specified for Intra-frequency
		cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b

Condition	Explanation	
A1	FDD cell environment	
A2	FDD/GSM inter-RAT cell environment	
A3	FDD intra-frequency cell environment (6 intra-frequency cells without inter-frequency	
	cells)	

Default Cell parameters Two PLMN in UTRAN test scenario

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

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

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

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

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

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

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

Default Cell parameters Three PLMN in UTRAN test scenario

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

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

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

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

- Idle mode PLMN identities	
- PLMNs of intra-frequency cells list	Not Present
- PLMNs of inter-frequency cells list	
- PLMN identity	Set to PLMN2
- PLMN identity	Set to PLMN2
- PLMN identity	Set to PLMN2
- PLMN identity	Set to PLMN3
- PLMNs of inter-RAT cells list	Not present
- Connected mode PLMN identities	Not present

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

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

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

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

6.1.5 Reference Radio Conditions for signalling test cases (FDD)

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

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

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

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

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

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

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

Parameter	Unit	Cell 1	Cell 2	Cell 4
Cell type		Serving cell	Suitable 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	-81	
UE_TXPWR_MAX_RACH	dBm	21	21	
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60	-70	

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.

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)	See table 6.1.6
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 100 dDesta array the share alice and ideas de-			

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

Table 6.1.6: Default power levels of DPCH_Ec relative to CPICH_Ec

Data Tranmission Rate kbps	Level
12.2	-5

64	-2
144	+1
384	+5

6.1.6 Reference Radio Conditions for signalling test cases (TDD)

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

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

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

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

Parameter	Unit	Cell 1	Cell 2	Cell 4
Cell type		Serving cell	Suitable neighbour intra- frequency cell	Suitable neighbour inter- frequency cell
UTRA RF Channel Number		Channel 1	Channel 1	Channel 2
Qrxlevmin	dBm	-81	-8	31
UE_TXPWR_MAX_RACH	dBm	21	21	
PCCPCH RSCP	dBm	-60	-7	7 0
NOTE: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.123.				

Table 6.1.8: Default settings for a non-suitable cell

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

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

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

6.1.7 Reference Radio Conditions for signalling test cases (GSM)

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

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

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

Table 6.1.11: Default settings for a non-suitable cell

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

6.2 Number of neighbour cells

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

6.2.1 Basic Network

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

6.2.2 Soft Handover Network (FDD)

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

6.2.3 Hard Handover Network

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

6.2.4 'Roaming' Network

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

6.7.2.2 Diverse Operation (TDD mode)

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

6.7.2.2.1 3.84.Mcps option

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

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

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

6.7.2.2.2 1.28 Mcps option

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

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

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

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

6.8 Compressed Mode Parameters

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

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

6.8.1 Single compressed mode pattern

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

6.8.1.1 Inter Frequency FDD measurement

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

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

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

6.8.1.2 Inter Frequency TDD measurement

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

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

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

6.8.1.3 Inter RAT measurement (GSM - Carrier RSSI)

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

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	undefined	
TGPL1 (Transmission Gap Pattern	12	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & UL	3 configurations possible.
	05/9	DL, UL or both DL and UL
UL compressed mode method	SF/2	
DL compressed mode method	SF/2	
Scrambling code change	No	
RPP (Recovery period power control	0	
mode)		
ITP (Initial transmission power control	0	
mode)		

6.8.1.4 Inter RAT measurement (GSM – Initial BSIC Identification)

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

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

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

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

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

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

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

6.8.2 Multiple compressed mode patterns

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

6.8.2.1 Inter RAT measurement GSM

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

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

Parameter	GSM Carrier 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)	undefined	undefined	undefined	
TGPL1 (Transmission Gap Pattern Length)	12	8	8	
TGPL2 (Transmission Gap Pattern Length)	-	•	-	Only one pattern in use.
TGCFN (Transmission Gap Connection Frame Number):	(Current CFN + (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 & UL	DL, UL or DL & UL	DL, UL or DL & UL	3 configurations possible. DL, UL or both DL and UL
UL compressed mode method	SF/2	SF/2	SF/2	
DL compressed mode method	SF/2	SF/2	SF/2	
Scrambling code change	No	No	No	
RPP (Recovery period power control mode)	0	0	0	
ITP (Initial transmission power control mode)	0	0	0	

6.8.2.2 FFS	Inter Frequency FDD measurement & Inter RAT measurement GSM
6.8.2.3 FFS	Inter Frequency FDD measurement & Inter Frequency TDD measurement
6.8.2.4 FFS	Inter Frequency TDD measurement & Inter RAT measurement GSM
6.8.2.5	Inter Frequency FDD measurement & Inter Frequency TDD measurement & Inter RAT measurement GSM
FFS	

6.9 BCCH parameters

See clause 6.1.

6.10 Reference Radio Bearer configurations used in Radio Bearer interoperability testing

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

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

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing. However, in the case of UL and DL:3.4 kbps SRBs for DCCH and where the Choice "Same As UL" is used for the IE "DL Transport channel information common for all transport channel", the RM attribute for the "DL:3.4 kbps SRBs for DCCH" shall be set to the same value as that used in the Uplink.

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.

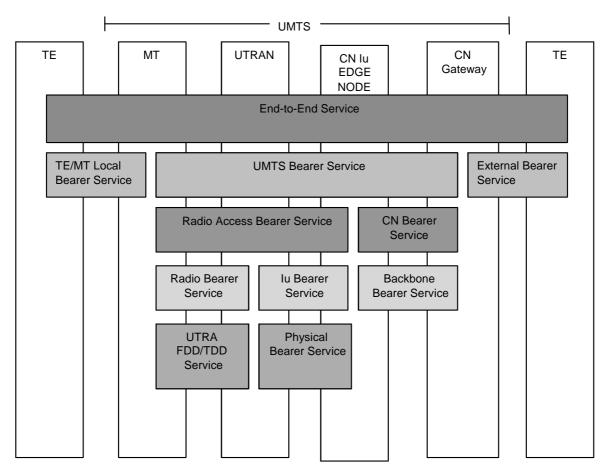


Figure 6.10.1.1: UMTS QoS Architecture

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.

Table 6.10.1.1: Traffic classes

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

6.10.2 RAB and signalling RB for FDD

6.10.2.1 RABs and signalling RBs

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

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

Table 6.10.2.1.1: Prioritised RABs.

#	Traffic class [15]	SSD [15]	Max. rate, kbps	CS/PS	Version
1	Conversational	Speech	UL:12.2 DL:12.2	CS	R99
1a	Conversational	Speech	UL:(12.2 7.95 5.9	CS	R99
			4.75) DL:(12.2		
			7.95 5.9 4.75)		
2	Conversational	Speech	UL:10.2 DL:10.2	CS	R99
2a	Conversational	Speech	UL:(10.2, 6.7, 5.9,	CS	R99
			4.75) DL:(10.2,		
			6.7, 5.9, 4.75)		
3	Conversational	Speech	UL:7.95 DL:7.95	CS	R99
4	Conversational	Speech	UL:7.4 DL:7.4	CS	R99
4a	Conversational	Speech	UL:(7.4, 6.7, 5.9,	CS	R99
			4.75) DL:(7.4, 6.7,		
_	Conversational	Connecto	5.9, 4.75)	00	DOO
5 6	Conversational Conversational	Speech Speech	UL:6.7 DL:6.7 UL:5.9 DL:5.9	CS CS	R99 R99
7	Conversational	Speech	UL:5.15 DL:5.15	CS	R99
8	Conversational	Speech	UL:4.75 DL:4.75	CS	R99
9	Conversational	Unknown	UL:28.8 DL:28.8	CS	R99
10	Conversational	Unknown	UL:64 DL:64	CS	R99
11	Conversational	Unknown	UL:32 DL:32	CS	R99
11a	Conversational	Unknown	UL:8 DL:8	PS	R99
12	Streaming	Unknown	UL:14.4 DL:14.4	CS	R99
13	Streaming	Unknown	UL:28.8 DL:28.8	CS	R99
14	Streaming	Unknown	UL:57.6 DL:57.6	CS	R99
15	Void	OTIKITOWIT	OL.37.0 DL.37.0	- 00	1133
15a	Streaming	Unknown	UL:16 DL:64	PS	R99
16	Void	OTIKITOWIT	0L.10 DL.04	10	1100
17	Void				
18	Void				
19	Void				
20	Interactive or Background	N/A	UL:32 DL:8	PS	R99
20a	Interactive or Background	N/A	UL:8 DL:8	PS	R99
20b	Interactive or Background	N/A	UL:16 DL:16	PS	R99
20c	Interactive or Background	N/A	UL:32 DL:32	PS	R99
21	Void				
22	Interactive or Background	N/A	UL:32 DL:64	PS	R99
23	Interactive or Background	N/A	UL:64 DL:64	PS	R99
24	Interactive or Background	N/A	UL:64 DL:128	PS	R99
25	Interactive or Background	N/A	UL:128 DL:128	PS	R99
26	Interactive or Background	N/A	UL:64 DL:384	PS	R99
27	Interactive or Background	N/A	UL:128 DL:384	PS	R99
28	Interactive or Background	N/A	UL:384 DL:384	PS	R99
29	Interactive or Background	N/A	UL:64 DL:2048	PS	R99
30	Interactive or Background	N/A	UL:128 DL:2048	PS	R99
31	Void				_
32	Interactive or Background	N/A	UL:64 DL:256	PS	R99
33	Interactive or Background	N/A	UL:0 DL:32	PS	R99
34	Interactive or Background	N/A	UL:32 DL: 0	PS	R99
35	Interactive or Background	N/A	UL:64 DL:144	PS	R99
36	Interactive or Background	N/A	UL:144 DL:144	PS	R99
37	Conversational	N/A	UL:42.8 DL:42.8	PS	REL-5
38	Conversational	Speech	UL:(12.65 8.85 6.6)	CS	REL-5
	Interestive as David	B1/A	DL:(12.65 8.85 6.6)	D0	ם ב
39	Interactive or Background	N/A	UL:64 DL:768	PS	REL-5

R99

R99 R99

REL-5

6

7

8

9

Maximum rate, kbps Logical channel PhyCh onto Version which SRBs are mapped DCCH DPCH UL:1.7 DL:1.7 R99 1 2 UL:3.4 DL:3.4 **DCCH DPCH** R99 3 UL:13.6 DL:13.6 **DCCH DPCH** R99 4 SCCPCH R99 DL:27.2 (alt. 40.8) DCCH 5 R99 UL:16.6 CCCH **PRACH**

SCCPCH

SCCPCH

SCCPCH

DPCH

CCCH

BCCH:

PCCH

DCCH

Table 6.10.2.1.2: Signalling RBs

6.10.2.2 Combinations of RABs and Signalling RBs

DL:30.4 (alt. 45.6)

DL:33.2 (alt. 49.8)

DL:24 (alt. 6.4)

DL: 0.15

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.
- Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.

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

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

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

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

Combinations on DSCH and DPCH

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

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

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

Combinations on PRACH

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

Combinations on DPCH and HS-PDSCH

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

6.10.2.3 Example of linkage between RABs and services

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

Table 6.10.2.3.1: Example of linkage between RABs and services

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

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

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

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

6.10.2.4 Typical radio parameter sets

6.10.2.4.1 Combinations on DPCH

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

6.10.2.4.1.1.1 Uplink

6.10.2.4.1.1.1 Transport channel parameters

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

Higher layer	RAB/signalling RE	RAB/signalling RB		SRB#2	SRB#3	SRB#4
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT
					High prio	Low prio
RLC	Logical channel ty	/pe	DCCH	DCCH	DCCH	DCCH
	RLC mode		UM	AM	AM	AM
	Payload sizes, bit		136	128	128	128
	Max data rate, bp	S	1700	1600	1600	1600
	AMD/UMD PDU ł	neader, bit	8	16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type		DCH			
	TB sizes, bit		148 (alt 0, 148)			
	TFS TF0, bits		0x148 (alt 1x0)			
		TF1, bits		1x1	148	
	TTI, ms		80			
	Coding type		CC 1/3			
	CRC, bit			16		
	Max number of bi	Max number of bits/TTI before rate		516		
	matching	matching				
	Uplink: Max numb		65			
	frame before rate	matching				
1	RM attribute			155-	-185	

6.10.2.4.1.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.1.1.2 Physical channel parameters

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

6.10.2.4.1.1.2 Downlink

6.10.2.4.1.1.2.1 Transport channel parameters

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

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

6.10.2.4.1.1.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.1.2.2 Physical channel parameters

DPCH Downlink			
	DTX position		N/A (SingleTrCH)
	Spreading factor		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	User of Radio Bearer		RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical chann	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, bit		4	4	4	4	
	MAC multiplex	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type		DCH				
	TB sizes, bit		148 (alt 0, 148)				
	TFS	TF0, bits	0x148 (alt 1x0)				
		TF1, bits		1x	148		
	TTI, ms	TTI, ms		40			
	Coding type	Coding type		CC 1/3			
	CRC, bit			16			
	Max number of	Max number of bits/TTI before rate		516			
	matching	matching					
	Uplink: Max n	Uplink: Max number of bits/radio		1:	29		
	frame before r	ate matching					
	RM attribute			155	-185		

6.10.2.4.1.2.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.2.1.2 Physical channel parameters

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

6.10.2.4.1.2.2 Downlink

6.10.2.4.1.2.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4
	User of Radio Bear	User of Radio Bearer		RRC	NAS_DT	NAS_DT
					High prio	Low prio
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH
	RLC mode		UM	AM	AM	AM
	Payload sizes, bit		136	128	128	128
	Max data rate, bps		3400	3200	3200	3200
	AMD/UMD PDU he	AMD/UMD PDU header, bit		16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type		DCH			
	TB sizes, bit		148 (alt 0, 148) (note)			
	TFS	TFS TF0, bits		0x148 (alt 1x0) (note)		
		TF1, bits		1x1	48	
	TTI, ms		40			
	Coding type		CC 1/3			
	CRC, bit		16			
	Max number of bits/TTI before rate		516			
	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)
	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	rer	RRC	RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		13600	12800	12800	12800	
	AMD/UMD PDU he	eader, bit	8	16	16	16	
MAC	MAC header, bit		4	4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type		DCH				
	TB sizes, bit		148 (alt 0, 148)				
	TFS			0x148 (alt 1x0)			
		TF1, bits		1x	148		
	TTI, ms	TTI, ms		10			
	Coding type	Coding type		CC 1/3			
	CRC, bit			16			
	Max number of bits/TTI before rate		516				
	matching						
	Uplink: Max number of bits/radio frame before rate matching			5	16		

6.10.2.4.1.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.3.1.2 Physical channel parameters

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

6.10.2.4.1.3.2 Downlink

6.10.2.4.1.3.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB	SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio 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	10				
	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)
	Spreading factor		128
	DPCCH	Number of TFCI bits/slot	0
		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	34
		Number of data bits/frame	510

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

6.10.2.4.1.4.1 Uplink

6.10.2.4.1.4.1.1 Transport channel parameters

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

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

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

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

See clause 6.10.2.4.1.2.1.1.

6.10.2.4.1.4.1.1.3 TFCS

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

6.10.2.4.1.4.1.2 Physical channel parameters

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

6.10.2.4.1.4.2 Downlink

6.10.2.4.1.4.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type		DTCH	
	RLC mode	TM	TM	TM
	Payload sizes, bit	0 39 81	103	60
	Max data rate, bps		12 200	
	TrD PDU header, bit		0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type	DCH	DCH	DCH
	TB sizes, bit	0 39 81	103	60
	TFS TF0, bits	1x0 (note 2)	0x103	0x60
	(note 1) TF1, bits	1x39	1x103	1x60
	TF2, bits	1x81	N/A	N/A
	TTI, ms	20	20	20
	Coding type	CC 1/3	CC 1/3	CC 1/2
	CRC, bit	12	N/A	N/A
	Max number of bits/TTI after channel coding	303	333	136
	RM attribute	180-220	170-210	215-256

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.4.2.1.3 TFCS

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

6.10.2.4.1.4.2.2 Physical channel parameters

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

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

6.10.2.4.1.4a.1.1 Transport channel parameters

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

Higher layer	RAB/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, 75, 81 (alt. 0, 39, 81)	53, 63, 84, 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, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60	
	TFS TF0, bits	0x81(alt. 1x0) (note)	0x103	0x60	
	TF1, bits	1x39	1x53	1x60	
	TF2 bits	1x42	1x63	N/A	
	TF3, bits	1x55	1x84	N/A	
	TF4, bits	1x75	1x103	N/A	
	TF5, bits	1x81	N/A	N/A	
	TTI, ms	20	20	20	
	Coding type	CC 1/3	CC 1/3	CC 1/2	
	CRC, bit	12	N/A	N/A	
	Max number of bits/TTI after channel coding	303	333	136	
	Uplink: Max number of bits/radio frame before rate matching	152	167	68	
	RM attribute	180-220	170-210	215-256	

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.4a.1.1.3 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,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.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/Signalling RB		RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type		DTCH		
	RLC mode		TM	TM	TM
	Payload s	izes, bit	0, 39, 42, 55, 75, 81	53, 63, 84, 103	60
	Max data	rate, bps		12 200	
	TrD PDU I	neader, bit		0	
MAC	MAC head	ler, bit		0	
	MAC multi	iplexing		N/A	
Layer 1	TrCH type		DCH	DCH	DCH
	TB sizes, l	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 typ	oe	CC 1/3	CC 1/3	CC 1/2
	CRC, bit		12	N/A	N/A
	Max numb	er of bits/TTI after oding	303	333	136
	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.).

6.10.2.4.1.4a.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,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 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		
ИАС	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 1/2	
	CRC, bit		12	N/A	N/A	
	Max num channel	ber of bits/TTI after 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 1/2
	CRC, bit	12	N/A	N/A
	Max number of bits/TTI after channel coding	255	321	96
	RM attribute	180-220	170-210	215-256

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.5.2.1.3 TFCS

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

6.10.2.4.1.5.2.2 Physical channel parameters

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

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

6.10.2.4.1.5a.1 Uplink

6.10.2.4.1.5a.1.1 Transport channel parameters

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

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.5a.2.1.3 TFCS

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

6.10.2.4.1.5a.2.2 Physical channel parameters

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

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

6.10.2.4.1.6.1 Uplink

6.10.2.4.1.6.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.6.1.1.3 TFCS

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

6.10.2.4.1.6.1.2 Physical channel parameters

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

6.10.2.4.1.6.2 Downlink

6.10.2.4.1.6.2.1 Transport channel parameters

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

Higher layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2		
RLC	Logical ch	annel type	DT	CH		
	RLC mode	9	TM	TM		
	Payload s	izes, bit	0 39	84		
			75			
	Max data	rate, bps	79:	50		
	TrD PDU I	header, bit	C)		
MAC	MAC header, bit		C)		
	MAC mult	iplexing	N/A			
Layer 1	TrCH type	•	DCH	DCH		
	TB sizes, bit		0	84		
			39			
			75			
	TFS	TF0, bits	1x0 (note 2)	0x84		
	(note 1)	TF1, bits	1x39	1x84		
		TF2, bits	1x75	N/A		
	TTI, ms	·	20	20		
	Coding type	ре	CC 1/3	CC 1/3		
	9 7.		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	DTCH	
	RLC mode	TM	TM
	Payload sizes, bit	39, 61 (alt. 0, 39, 61)	87
	Max data rate, bps	7400	
	TrD PDU header, bit	0	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	DCH
	TB sizes, bit	39, 61 (alt. 0, 39, 61)	87
	TFS TF0, bits	0x61 (alt. 1x0) (note)	0x87
	TF1, bits	1x39	1x87
	TF2, bits	1x61	N/A
	TTI, ms	20	20
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	243	285
	Uplink: Max number of bits/radio frame before rate matching	122	143
	RM attribute	180-220	170-210
	In case of using this alternative, CRC parity bits are of TrBlks are 1 even if there is no data on RAB subfle		

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/Sign	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTCH	
	RLC mode)	TM	TM
	Payload s	zes, bit	0	87
			39	
			61	
	Max data	rate, bps	7400	
	TrD PDU header, bit		0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes, 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		CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max number 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.).

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.7.2.1.3 TFCS

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

6.10.2.4.1.7.2.2 Physical channel parameters

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

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

6.10.2.4.1.7a.1 Uplink

6.10.2.4.1.7a.1.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTC	Н
	RLC mod		TM	TM
		Payload sizes, bit	39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87
	Max data	a rate, bps	740	0
	TrD PDU	J header, bit	0	
MAC	MAC hea	ader, bit	0	
	MAC mu	Itiplexing	N/A	1
Layer 1	TrCH typ	pe	DCH	DCH
	TB sizes, bit		39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87
	TFS	TF0, bits	0x61 (alt. 1x0) (note)	0x87
		TF1, bits	1x39	1x53
		TF2, bits	1x42	1x63
		TF3, bits	1x55	1x76
		TF4, bits	1x58	1x87
		TF5, bits	1x61	N/A
	TTI, ms		20	20
	Coding type		CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max num	ber of bits/TTI after channel coding	243	285
	Uplink: Max number of bits/radio frame before rate matching		122	143
	RM attribute		180-220	170-210
NOTE:		sing this alternative, CRC parity bits are TBlks are 1 even if there is no data on F		

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 ty	ре	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	Logical	channel type	DTCH		
0	RLC mod		TM	TM	
	Payload	sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	Max data	a rate, bps	670	6700	
	TrD PDU	J header, bit	0		
MAC	MAC hea	ader, bit	0		
	MAC multiplexing		N/A	A	
Layer 1	TrCH typ	pe	DCH	DCH	
	TB sizes	, bit	39, 58 (alt. 0, 39, 58)	76	
	TFS	TF0, bits	0x58 (alt. 1x0) (note)	0x76	
		TF1, bits	1x39	1x76	
		TF2, bits	1x58	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	
	Max number of bits/TTI after channel coding		234	252	
	Uplink: Nate mate	Max number of bits/radio frame before ching	117	126	
	RM attribute		180-220	170-210	
		sing this alternative, CRC parity bits are e 1 even if there is no data on RAB subfle		•	

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.8.1.1.3 TFCS

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

6.10.2.4.1.8.1.2 Physical channel parameters

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

6.10.2.4.1.8.2 Downlink

6.10.2.4.1.8.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type	DTO	CH CH
	RLC mode	TM	TM
	Payload sizes, bit	0	76
		39	
		58	
	Max data rate, bps	670	00
	TrD PDU header, bit	0	
MAC	MAC header, bit	0	,
	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	DTC	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 55 (alt. 0, 39, 55)	63	
	Max data rate, bps	590	00	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A	4	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 55 (alt. 0, 39, 55)	63	
	TFS TF0, bits	0x55 (alt. 1x0) (note)	0x63	
	TF1, bits	1x39	1x63	
	TF2, bits	1x55	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	225	213	
	Uplink: Max number of bits/radio frame before rate matching	113	107	
	RM attribute	180-220	170-210	
	In case of using this alternative, CRC parity bits are of TrBlks are 1 even if there is no data on RAB subf			

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.9.1.1.3 TFCS

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

6.10.2.4.1.9.1.2 Physical channel parameters

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

6.10.2.4.1.9.2 Downlink

6.10.2.4.1.9.2.1 Transport channel parameters

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

Higher 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 55	63	
	Max data	rate, bps	59	900	
	TrD PDU I	neader, bit		0	
MAC	MAC header, bit		0		
	MAC multi	plexing	N/A		
Layer 1	TrCH type		DCH	DCH	
	TB sizes, I	pit	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 typ	pe	CC 1/3	CC 1/3	
	CRC, bit		12	N/A	
	Max numb	er of bits/TTI after channel coding	225	213	
	RM attribu	te	180-220	170-210	

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.9.2.1.3 TFCS

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

6.10.2.4.1.9.2.2 Physical channel parameters

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

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

SRBs for DCCH

6.10.2.4.1.10.1 Uplink

6.10.2.4.1.10.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.1.1.1

6.10.2.4.1.10.1.1.3 TFCS

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

6.10.2.4.1.10.1.2 Physical channel parameters

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

6.10.2.4.1.10.2 Downlink

6.10.2.4.1.10.2.1 Transport channel parameters

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

Higher 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	54	
			39		
			49		
	Max data	rate, bps	51:	50	
	TrD PDU I	header, bit	C)	
MAC	MAC head	der, bit	C	0	
	MAC mult	iplexing	N/A		
Layer 1	TrCH type	•	DCH	DCH	
	TB sizes,	bit	0	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
RĹC	Logical channel type	DTO	CH
	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	A
ayer 1	TrCH type	DCH	DCH
-	TB sizes, bit	39, 42 (alt. 0, 39, 42)	53
	TFS TF0, bits	0x42 (alt. 1x0) (note)	0x53
	TF1, bits	1x39	1x53
	TF2, bits	1x42	N/A
	TTI, ms	20	20
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	186	183
	Uplink: Max number of bits/radio frame before	93	92
	rate matching		
	RM attribute	180-220	170-210

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

See clause 6.10.2.4.1.1.1.1

6.10.2.4.1.11.1.3 TFCS

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

6.10.2.4.1.11.1.2 Physical channel parameters

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

6.10.2.4.1.11.2 Downlink

6.10.2.4.1.11.2.1 Transport channel parameters

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

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

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

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

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

See clause 6.10.2.4.1.1.2.1.1

6.10.2.4.1.11.2.1.3 TFCS

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

6.10.2.4.1.11.2.2 Physical channel parameters

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

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

6.10.2.4.1.12.1 Uplink

6.10.2.4.1.12.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Uplink: Max number of bits/radio frame before rate matching	891
	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/Sigi	nalling RB	RAB
RLC	Logical c	hannel type	DTCH
	RLC mod	de	TM
	Payload	sizes, bit	576
	Max data	rate, bps	28800
	TrD PDU	header, bit	0
MAC	MAC hea	ader, 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 ty	/pe	TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		3564
	RM attrib	oute	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 layer	RAB/Signalling I	RB	RAB
RLC	Logical channel type		DTCH
	RLC mode	71 -	TM
	Payload sizes, b	oit	640
	Max data rate, b	ps	64000
	TrD PDU heade	r, bit	0
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		640
	TFS	TF0, bits	0x640
		TF1, bits	2x640(alt. 4x640)
	TTI, ms		20(alt. 40)
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		3948(alt. 7884)
	Uplink: Max number of bits/radio frame before		1974(alt. 1971)
	rate matching		
	RM attribute		150-195

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.13.1.1.3 TFCS

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

6.10.2.4.1.13.1.2 Physical channel parameters

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

6.10.2.4.1.13.2 Downlink

6.10.2.4.1.13.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.13.2.1.3 TFCS

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

6.10.2.4.1.13.2.2 Physical channel parameters

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

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

6.10.2.4.1.14.1 Uplink

6.10.2.4.1.14.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.13.1.1.3 TFCS

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

6.10.2.4.1.14.1.2 Physical channel parameters

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

6.10.2.4.1.14.2 Downlink

6.10.2.4.1.14.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.14.2.1.3 TFCS

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

6.10.2.4.1.14.2.2 Physical channel parameters

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

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

6.10.2.4.1.15.1 Uplink

6.10.2.4.1.15.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.15.1.1.3 TFCS

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

6.10.2.4.1.15.1.2 Physical channel parameters

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

6.10.2.4.1.15.2 Downlink

6.10.2.4.1.15.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.15.2.1.3 TFCS

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

6.10.2.4.1.15.2.2 Physical channel parameters

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

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

for DCCH

6.10.2.4.1.16.1 Uplink

6.10.2.4.1.16.1.1 Transport channel parameters

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

Higher	RAB/Signalling RB	RAB
layer		
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	Downlink Spreading factor		32
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	4
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	140
		Number of data bits/frame	2100

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

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23.1.1.3 TFCS

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

6.10.2.4.1.23.1.2 Physical channel parameters

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

6.10.2.4.1.23.2 Downlink

6.10.2.4.1.23.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23.2.1.3 TFCS

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

6.10.2.4.1.23.2.2 Physical channel parameters

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

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

DCCH

6.10.2.4.1.23a.1 Uplink

6.10.2.4.1.23a.1.1 Transport channel parameters

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

Higher 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/Signalling RB		RAB
RLC	Logical ch	nannel type	DTCH
	RLC mod	e	AM
	Payload s	sizes, bit	320
	Max data	rate, bps	8000
	AMD PDU	J header, bit	16
MAC	MAC hea	der, bit	0
	MAC mul	tiplexing	N/A
Layer 1	TrCH type	9	DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
	TTI, ms		40
	Coding type		CC 1/3 (alt. TC)
	CRC, bit		16
	Max number of bits/TTI after channel coding		1080 (alt. 1068)
	RM attrib	ute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23a.2.1.3 TFCS

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

6.10.2.4.1.23a.2.2 Physical channel parameters

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

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

for DCCH

6.10.2.4.1.23b.1 Uplink

6.10.2.4.1.23b.1.1 Transport channel parameters

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

Higher layer	RAB/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		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 mc	ode	AM
	Payload	I sizes, bit	320
	Max dat	a rate, bps	16000
	AMD PE	DU header, bit	16
MAC	MAC he	eader, bit	0
	MAC m	ultiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms		40
	Coding	type	TC
	CRC, bi	t	16
	Max number of bits/TTI after channel coding		2124
	RM attri	bute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23b.2.1.3 TFCS

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

6.10.2.4.1.23b.2.2 Physical channel parameters

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

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

for DCCH

6.10.2.4.1.23c.1 Uplink

6.10.2.4.1.23c.1.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mo	de	AM
	Payload	sizes, bit	320
	Max data	a rate, bps	32000
	AMD PD	OU header, bit	16
MAC	MAC he	ader, bit	0
	MAC mu	ultiplexing	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	oute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23c.1.1.3 TFCS

TFCS (32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF4,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)	1),

6.10.2.4.1.23c.1.2 Physical channel parameters

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

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

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

Higher layer	RAB/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
	TF3, bits	3x336
	TF4, bits	4x336
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4236
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23c.2.1.3 TFCS

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

6.10.2.4.1.23c.2.2 Physical channel parameters

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

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

kbps SRBs for DCCH

6.10.2.4.1.23d.1 Uplink

6.10.2.4.1.23d.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23d.1.1.3 TFCS

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

6.10.2.4.1.23d.1.2 Physical channel parameters

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

6.10.2.4.1.23d.2 Downlink

6.10.2.4.1.23d.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB		RAB
RLC	Logical	channel type	DTCH
	RLC mo	de	AM
	Payload	sizes, bit	320
	Max dat	a rate, bps	32000
	AMD PD	DU 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
	TTI, ms		20
	Coding type		TC
	CRC, bit	t	16
	Max nur	mber of bits/TTI after channel coding	2124
	RM attribute		135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23d.2.1.3 TFCS

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

6.10.2.4.1.23d.2.2 Physical channel parameters

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

6.10.2.4.1.24 Void

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

for DCCH

6.10.2.4.1.25.1 Uplink

See clause 6.10.2.4.1.23.1.

6.10.2.4.1.25.2 Downlink

6.10.2.4.1.25.2.1 Transport channel parameters

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

Higher 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

6.10.2.4.1.26.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.26.1.1.3 TFCS

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

6.10.2.4.1.26.1.2 Physical channel parameters

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

6.10.2.4.1.26.2 Downlink

See clause 6.10.2.4.1.25.2.

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

for DCCH

6.10.2.4.1.27.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.27.2 Downlink

6.10.2.4.1.27.2.1 Transport channel parameters

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

Higher 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 6.10.2.4.1.26.1.

6.10.2.4.1.29.2 Downlink

6.10.2.4.1.29.2.1 Transport channel parameters

6.10.2.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

Higher 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	RAB/Signalling RB	RAB
layer RLC	I agical channel type	DTCH
KLC	Logical channel type	
	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 6.10.2.4.1.26.1.

6.10.2.4.1.31.2 Downlink

6.10.2.4.1.31.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	256000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	N/A (alt. 12x336)
	TF6, bits	N/A (alt. 16x336)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	8460(alt. 16920)
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.31.2.1.3 TFCS

TFCS size	10 (alt.14)
TFCS	(256 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1))

6.10.2.4.1.31.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	ownlink Spreading factor		8
	Number od DPDCH		1
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	608
		Number of data bits/frame	9120

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

for DCCH

6.10.2.4.1.32.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.32.2 Downlink

6.10.2.4.1.32.2.1 Transport channel parameters

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

Higher 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	vnlink Spreading factor Number of DPDCH		8
			1
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	608
		Number of data bits/frame	9120

6.10.2.4.1.33 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 6.10.2.4.1.26.1.

6.10.2.4.1.35.2 Downlink

6.10.2.4.1.35.2.1 Transport channel parameters

6.10.2.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

Higher	RAB/Signalling RB	RAB
layer		
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	640
	Max data rate, bps	2048000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	656
	TFS TF0, bits	0x656
	TF1, bits	1x656
	TF2, bits	2x656
	TF3, bits	4 x656
	TF4, bits	8 x656
	TF5, bits	12x656
	TF6, bits	16x656
	TF7, bits	20x656
	TF8, bits	24x656
	TF9, bits	28x656
	TF10, bits	32x656
	TF11, bits	N/A (alt. 36x656)
	TF12, bits	N/A (alt. 40x656)
	TF13, bits	N/A (alt. 44x656)
	TF14, bits	N/A (alt. 48x656)
	TF15, bits	N/A (alt. 52x656)
	TF16, bits	N/A (alt. 56x656)
	TF17, bits	N/A (alt. 60x656)
	TF18, bits	N/A (alt. 64x656)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	64575 (alt. 129141)
	RM attribute	130-170

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.35.2.1.3 TFCS

TFCS size	22 (alt.38)
TFCS	(2048 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF8, TF0), (TF9, TF0), (TF10, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1)
	(alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),
	(TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1),(TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15,
	TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0))

6.10.2.4.1.35.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading factor		4
	Number of DPCH		3
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	1248
		Number of data bits/frame	18720

6.10.2.4.1.36 Void
6.10.2.4.1.37 Void
6.10.2.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.38.1 Uplink
6.10.2.4.1.38.1.1 Transport channel parameters
6.10.2.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB
See clause 6.10.2.4.1.4.1.1.1.

6.10.2.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.2.4.1.23.1.1.1.

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

6.10.2.4.1.38.1.1.4 TFCS

TFCS size	18 (alt. 12)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1)
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0,
	TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1))

6.10.2.4.1.38.1.2 Physical channel parameters

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

6.10.2.4.1.38.2 Downlink

6.10.2.4.1.38.2.1 Transport channel parameters

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

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

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

6.10.2.4.1.38.2.1.4 TFCS

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

6.10.2.4.1.38.2.2 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	0
	before rate matching	
	RM attribute	130-170

6.10.2.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38a.1.1.4 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,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,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)

6.10.2.4.1.38a.2.2 Physical channel parameters

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

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

6.10.2.4.1.38b.1 Uplink

6.10.2.4.1.38b.1.1 Transport channel parameters

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

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

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

6.10.2.4.1.38b.1.2 Physical channel parameters

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

6.10.2.4.1.38b.2 Downlink

6.10.2.4.1.38b.2.1 Transport channel parameters

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.38b.2.1.4 TFCS

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

6.10.2.4.1.38b.2.2 Physical channel parameters

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

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

6.10.2.4.1.38c.1 Uplink

6.10.2.4.1.38c.1.1 Transport channel parameters

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

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

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

6.10.2.4.1.38c.1.1.4 TFCS

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

6.10.2.4.1.38c.1.2 Physical channel parameters

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

6.10.2.4.1.38c.2 Downlink

6.10.2.4.1.38c.2.1 Transport channel parameters

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

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

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

6.10.2.4.1.38c.2.1.4 TFCS

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

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

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

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.1.1.1.

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

Higher Layer	RAB/Signalling RB		RAB	RAB
RLC	Logical channel type		DTCH	DTCH
	RLC mod	de	AM	AM
	Payload	sizes, bit	320	320
	Max data	a rate, bps	64000	64000
	AMD PD	U header, bit	16	16
MAC	MAC hea	ader, bit	4	4
	MAC mu	Itiplexing	2 logical chann	el multiplexing
Layer 1	TrCH typ	e	DC	CH
	TB sizes	, bit	34	10
	TFS	TF0, bits	0x3	340
		TF1, bits	1x3	340
		TF2, bits	2x3	340
		TF3, bits	3x3	340
		TF4, bits	4x3	340
	TTI, ms		20	
	Coding ty		T	C
	CRC, bit		10	6
		nber of bits/TTI after channel coding	42	84
		lax number of bits/radio frame	21	42
		ite matching		
	RM attrib	oute	130-	170

6.10.2.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38d.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)

6.10.2.4.1.38d.1.2 Physical channel parameters

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

6.10.2.4.1.38d.2 Downlink

6.10.2.4.1.38d.2.1 Transport channel parameters

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

6.10.2.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

Higher Layer	RAB/Sigi	nalling RB		RAB
RLC	Logical c	hannel type	DTCH	DTCH
	RLC mod	de	AM	AM
	Payload	sizes, bit	320	320
	Max data	rate, bps	64000	64000
	AMD PD	U header, bit	16	16
MAC	MAC header, bit		4	4
	MAC mu	Itiplexing	2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
	TB sizes	, bit	340	
	TFS	0x340	0x340	
		1x340	1x340	
		2x340	2x3	40
	3x340		3x340	
		4x340	4x3	40
	TTI, ms		20	
	Coding type		TC	
	CRC, bit		16	
	Max number of bits/TTI after channel coding		4284	
	RM attribute		130-170	

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.38d.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)

6.10.2.4.1.38d.2.2 Physical channel parameters

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

6.10.2.4.1.38e Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or

background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38e.1 Uplink

6.10.2.4.1.38e.1.1 Transport channel parameters

6.10.2.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75)

kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

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

See clause 6.10.2.4.1.38a.1.1.2.

6.10.2.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38e.1.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF0,TF1)

6.10.2.4.1.38e.1.2 Physical channel parameters

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

6.10.2.4.1.38e.2 Downlink

6.10.2.4.1.38e.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38e.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),

6.10.2.4.1.38e.2.2 Physical channel parameters

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

6.10.2.4.1.38f Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38f.1 Uplink

6.10.2.4.1.38f.1.1 Transport channel parameters

6.10.2.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

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

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

6.10.2.4.1.38f.1.1.4 TFCS

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

6.10.2.4.1.38g.2.2 Physical channel parameters

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

6.10.2.4.1.38h Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38h.1 Uplink

6.10.2.4.1.38h.1.1 Transport channel parameters

6.10.2.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.2.4.1.23c.1.1.1.

6.10.2.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38h.1.1.4 TFCS

TFCS size	32
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF0,TF0,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

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 6.10.2.4.1.26.1.1.1.

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

6.10.2.4.1.38i.1.1.4 TFCS

TFCS size	48
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)

6.10.2.4.1.38i.1.2 Physical channel parameters

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

6.10.2.4.1.38i.2 Downlink

6.10.2.4.1.38i.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38i,2.1.4 TFCS

TFCS size	60
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,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 position		Flexible
Downlink	Spreading factor		32
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	4
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	140
		Number of data bits/frame	2100

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

6.10.2.4.1.38j.1 Uplink

6.10.2.4.1.38j.1.1 Transport channel parameters

See clause 6.10.2.4.1.38i.1.1

6.10.2.4.1.38j.2 Downlink

6.10.2.4.1.38j.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38j.2.1.4 TFCS

F	
TFCS size	60
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 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,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,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,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, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

6.10.2.4.1.39.2.2 Physical channel parameters

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

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

6.10.2.4.1.40.1 Uplink

6.10.2.4.1.40.1.1 Transport channel parameters

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

6.10.2.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.2.4.1.26.1.1.1.

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

6.10.2.4.1.40.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

6.10.2.4.1.40.1.2 Physical channel parameters

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

6.10.2.4.1.40.2 Downlink

See clause 6.10.2.4.1.39.2.

6.10.2.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.41.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.41.2 Downlink

6.10.2.4.1.41.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.41.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

6.10.2.4.1.41.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading	factor	16
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	288
		Number of data bits/frame	4320

6.10.2.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.42.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.42.2 Downlink

6.10.2.4.1.42.2.1 Transport channel parameters

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

6.10.2.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB See clause 6.10.2.4.1.31.2.1.1.

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

6.10.2.4.1.42.2.1.4 TFCS

TFCS size	30 (alt. 42)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, 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 position		Flexible
Downlink	Spreading factor		8
	Number of DPDCH		1
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	608
		Number of data bits/frame	9120

6.10.2.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.43.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.43.2 Downlink

6.10.2.4.1.43.2.1 Transport channel parameters

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

6.10.2.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.2.4.1.32.2.1.1.

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

6.10.2.4.1.43.2.1.4 TFCS

TFCS size	36 (alt. 54)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)
	(TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
	(TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1)
	(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))

6.10.2.4.1.43.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading	factor	8
	Number of DPDCH		1
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	608
		Number of data bits/frame	9120

6.10.2.4.1.44 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 position		Flexible
Downlink	Spreading factor		4
	Number of DPDCH		3
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	1248
		Number of data bits/frame	18720

6.10.2.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.45.1 Uplink

6.10.2.4.1.45.1.1 Transport channel parameters

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

6.10.2.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.2.4.1.17.1.1.1.

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

6.10.2.4.1.45.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

6.10.2.4.1.45.1.2 Physical channel parameters

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

6.10.2.4.1.45.2 Downlink

6.10.2.4.1.45.2.1 Transport channel parameters

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

6.10.2.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.2.4.1.17.2.1.1.

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

6.10.2.4.1.45.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, 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	link Spreading factor		32
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	4
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	140
		Number of data bits/frame	2100

6.10.2.4.1.46	Void
6.10.2.4.1.47	Void
6.10.2.4.1.48	Void
6.10.2.4.1.49	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.49.1	Uplink
6.10.2.4.1.49.1.1	Transport channel parameters
0.40.0.4.4.0.4.4.4	T

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), (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), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)

6.10.2.4.1.49a.1.2 Physical channel parameters

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

6.10.2.4.1.49a.2 Downlink

6.10.2.4.1.49a.2.1 Transport channel parameters

6.10.2.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.49a.2.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,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)

6.10.2.4.1.49a.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 bbps SRBs for DCCH

6.10.2.4.1.50.1 Uplink

6.10.2.4.1.50.1.1 Transport channel parameters

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

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

6.10.2.4.1.50.1.1.3 TFCS

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

6.10.2.4.1.50.1.2 Physical channel parameters

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

6.10.2.4.1.50.2 Downlink

6.10.2.4.1.50.2.1 Transport channel parameters

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.50.2.1.3 TFCS

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

6.10.2.4.1.50.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading factor		16
	DPCCH Number of TFCI bits/slot		8
	Number of TPC bits/slot		8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	288
		Number of data bits/frame	4320

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

6.10.2.4.1.51.1 Uplink

6.10.2.4.1.51.1.1 Transport channel parameters

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

6.10.2.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.2.4.1.26.1.1.1.

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

6.10.2.4.1.51.1.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

6.10.2.4.1.51.1.2 Physical channel parameters

DPCH	Min spreading factor	8
Uplink	Max number of DPDCH data	4800
	bits/radio frame	
	Puncturing Limit	0.88

6.10.2.4.1.51.2 Downlink

6.10.2.4.1.51.2.1 Transport channel parameters

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

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

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

6.10.2.4.1.51.2.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

6.10.2.4.1.51.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading factor		16
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	288
		Number of data bits/frame	4320

6.10.2.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background /

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

6.10.2.4.1.51a.1 Uplink

6.10.2.4.1.51a.1.1 Transport channel parameters

 $6.10.2.4.1.51a.1.1.1 \quad Transport\ channel\ parameters\ for\ Conversational\ /\ unknown\ /\ UL:64\ kbps\ /\ CS\ RAB$

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, TF1), (TF0, TF1, TF1),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)

6.10.2.4.1.51a.2.2 Physical channel parameters

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

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

6.10.2.4.1.51b.1 Uplink

6.10.2.4.1.51b.1.1 Transport channel parameters

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

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

Higher layer	RAB/Signa	alling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode	9	AM
	Payload s	izes, bit	320
	Max data	rate, bps	16000
	AMD PDU	header, bit	16
MAC	MAC head	der, bit	0
	MAC mult	iplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes,	bit	336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms		40
	Coding type	oe oe	TC
	CRC, bit		16
		per of bits/TTI after channel coding	2124
	Uplink: Ma	ax number of bits/radio frame before rate matching	531
	RM attribu	ite	135-175

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

6.10.2.4.1.51b.1.1.4 TFCS

TFCS size	12
TFCS	(64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1,
	TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF1, TF0, TF1), (TF1, TF1,
	TF1), (TF1, TF2, TF1)

6.10.2.4.1.51b.1.2 Physical channel parameters

DPCH	Min spreading factor	16
Uplink	Max number of DPDCH data bits/radio frame	2400
	Puncturing Limit	0.64

6.10.2.4.1.51b.2 Downlink

See clause 6.10.2.4.1.51.2.

6.10.2.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.10.2.4.1.52.1 Uplink

See clause 6.10.2.4.1.51.1.

6.10.2.4.1.52.2 Downlink

6.10.2.4.1.52.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.52.2.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

6.10.2.4.1.52.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading factor		8
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	608
		Number of data bits/frame	9120

6.10.2.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background /

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

6.10.2.4.1.53.1 Uplink

6.10.2.4.1.53.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.1.1.1.

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

See clause 6.10.2.4.1.28.1.1.1.

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.53.1.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

6.10.2.4.1.53.1.2 Physical channel parameters

DPCH	Min spreading factor	4
Uplink	Max number of DPDCH data	9600
	bits/radio frame	
	Puncturing Limit	0.96

6.10.2.4.1.53.2 Downlink

See clause 6.10.2.4.1.52.2.

6.10.2.4.1.54	Void
6.10.2.4.1.55	Void
6.10.2.4.1.56	Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.56.1	Uplink
6.10.2.4.1.56.1.1	Transport channel parameters

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

Higher Layer	RAB/Sigr	nalling RB	RAB	RAB
RLC	Logical cl	nannel type	DTCH	DTCH
	RLC mod	e	AM	AM
	Payload s	sizes, bit	320	320
	Max data	rate, bps	8000	8000
	AMD PDI	J header, bit	16	16
MAC	MAC hea	der, bit	4	4
	MAC multiplexing		2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
	TB sizes,		340	
	TFS	TF0, bits	0x3	40
		TF1, bits	1x3	40
	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		27	0
	before rat	te matching		
	RM attribute		135-	175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.56.1.1.3 TFCS

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

6.10.2.4.1.56.1.2 Physical channel parameters

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

6.10.2.4.1.56.2 Downlink

6.10.2.4.1.56.2.1 Transport channel parameters

6.10.2.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

Higher 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	1x	340
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1080	
	RM attribute	135-175	

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.56.2.1.3 TFCS

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

6.10.2.4.1.56.2.2 Physical channel parameters

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

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

6.10.2.4.1.57.1 Uplink

6.10.2.4.1.57.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB	RAB	
RLC	Logical channel type	DTCH	DTCH	
	RLC mode	AM	AM	
	Payload sizes, bit	320	320	
	Max data rate, bps	64000	64000	
	AMD PDU header, bit	16	16	
MAC	MAC header, bit	4	4	
	MAC multiplexing	2 logical chann	2 logical channel multiplexing	
Layer 1	TrCH type	DCH		
	TB sizes, bit	340		
	TFS TF0, bits	0x3	40	
	TF1, bits	1x3	40	
	TF2, bits	2x3	40	
	TF3, bits	3x3	40	
	TF4, bits	4x340		
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	4284		
	Uplink: Max number of bits/radio frame before rate matching	214	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		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	OU header, bit	16	16
MAC	MAC he	ader, bit	4	4
	MAC mu	ultiplexing	2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
	TB sizes	s, bit	340	
	TFS	0x340	0x340	
		1x340	1x3	340
		2x340	2x3	340
		3x340	3x3	340
		4x340	4x3	340
	TTI, ms		20	
	Coding t	ype	TC	
	CRC, bit	· · · · · · · · · · · · · · · · · · ·	16	
	Max nun	nber of bits/TTI after channel coding	4284	
	RM attrib	bute	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 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

6.10.2.4.1.58 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 chan	nel coding 1068
	Uplink: Max number of bits/radio fr	rame 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/Signalling RB		RAB	
RLC	Logical	channel type	DTCH	
	RLC mo		AM	
	Payload	sizes, bit	640	
	Max dat	a rate, bps	64000	
	AM PDU	J header, bit	16	
MAC	MAC he	ader, bit	0	
	MAC mu	ultiplexing	N/A	
Layer 1	TrCH ty	pe	DCH	
-	TB sizes		656	
	TFS	TF0, bits	0x656	
		TF1, bits	1x656	
		TF2, bits	2x656	
		TF3, bits	4x656	
	TTI, ms		40	
	Coding	type	TC	
	CRC, bi		16	
	Max nur	mber of bits/TTI after channel coding	8076	
	RM attri	bute	125-165	

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.58.2.1.4 TFCS

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

6.10.2.4.1.58.2.2 Physical channel parameters

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

6.10.2.4.1.59 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.59.1 Uplink

6.10.2.4.1.59.1.1 Transport channel parameters

6.10.2.4.1.59.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

Higher layer	RAB/S	ignalling RB	RAB
PDCP	PDCP header size, bit		8
RLC	Logica	l channel type	DTCH
	RLC m	node	UM
	Payloa	ad sizes, bit	920, 304, 96
	Max da	ata rate, bps	46000
	UMD F	PDU header, bit	8
MAC	MAC h	neader, bit	0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		928, 312, 104
	TFS	TF0, bits	0x928
		TF1, bits	1x104
		TF2, bits	1x312
		TF3, bits	1x928
	TTI, m	S	20
	Coding type		TC
CRC, bit		bit	16
	Max number of bits/TTI after channel coding Uplink: Max number of bits/radio frame before rate matching		2844
			1422
	RM att	ribute	180-220

6.10.2.4.1.59.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB + UL:16 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB	RAB	
RLC	Logical channel type	DTCH	DTCH	
	RLC mode	AM	AM	
	Payload sizes, bit	320	320	
	Max data rate, bps	16000	16000	
	AMD PDU header, bit	16	16	
MAC	MAC header, bit	4	4	
	MAC multiplexing	2 logical chann	2 logical channel multiplexing	
Layer 1	TrCH type	DCH		
	TB sizes, bit	340		
	TFS TF0, bits	0x3	340	
	TF1, bits	1x3	340	
	TF2, bits	2X3	340	
	TTI, ms	40		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	2148		
	Uplink: Max number of bits/radio frame	53	37	
	before rate matching			
	RM attribute	135-	·175	

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.59.1.1.4 TFCS

TFCS size	24
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1), (TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1)
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1)
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1)

6.10.2.4.1.59.1.2 Physical channel parameters

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

6.10.2.4.1.59.2 Downlink

6.10.2.4.1.59.2.1 Transport channel parameters

6.10.2.4.1.59.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

Higher layer	RAB/S	ignalling RB	RAB
PDCP	PDCP	header size, bit	8
RLC	Logica	I channel type	DTCH
	RLC m	node	UM
	Payloa	nd sizes, bit	920, 304, 96
	Max da	ata rate, bps	46000
	UMD F	PDU header, bit	8
MAC	MAC h	eader, bit	0
	MAC n	nultiplexing	N/A
Layer 1	TrCH t	ype	DCH
	TB size	es, bit	928, 312, 104
	TFS	TF0, bits	0x928
		TF1, bits	1x104
		TF2, bits	1x312
		TF3, bits	1x928
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max no	umber of bits/TTI after channel coding	2844
	RM att	ribute	180-220

6.10.2.4.1.59.2.1.2 Transport channel parameters for Interactive / DL:16kbps / PS RAB + DL:16 kbps / PS RAB

Higher Layer	RAB/Signalling RB		RAB	RAB
RLC	Logical channel type		DTCH	DTCH
	RLC mod	de	AM	AM
	Payload	sizes, bit	320	320
	Max data	a rate, bps	16000	16000
	AMD PD	U header, bit	16	16
MAC	MAC hea	ader, bit	4	4
	MAC mu	Itiplexing	2 logical channel multiplexing	
Layer 1	TrCH typ	e	DCH	
	TB sizes		34	0
	TFS	TF0, bits	0x3	40
		TF1, bits	1x340	
		TF2, bits	2X3	40
	TTI, ms	·	40	
	Coding t	ype	TC	
	CRC, bit		16	
	Max num	nber of bits/TTI after channel coding	214	18
	RM attrib	oute	135-	175

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.59.2.1.4 TFCS

TFCS size	24
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1)
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1)

6.10.2.4.1.59.2.2 Physical channel parameters

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

6.10.2.4.1.60 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.60.1 Uplink

6.10.2.4.1.60.1.1 Transport channel parameters

6.10.2.4.1.60.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

Higher layer	RAB/S	ignalling RB	RAB
PDCP	PDCP	header size, bit	8
RLC	Logica	l channel type	DTCH
	RLC m	node	UM
	Payloa	ad sizes, bit	920, 304, 96
	Max da	ata rate, bps	46000
	UMD F	PDU header, bit	8
MAC	MAC h	neader, bit	0
	MAC r	nultiplexing	N/A
Layer 1	TrCH t	ype	DCH
	TB siz	es, bit	928, 312, 104
	TFS	TF0, bits	0x928
		TF1, bits	1x104
		TF2, bits	1x312
		TF3, bits	1x928
	TTI, m	S	20
	Coding		TC
	CRC, I	bit	16
	Max n	umber of bits/TTI after channel coding	2844
	Uplink	: Max number of bits/radio frame before rate matching	1422
	RM att	ribute	180-220

6.10.2.4.1.60.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.60.1.1.4 TFCS

TFCS size	24
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF1)
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3, TF1, TF0), (TF3, TF1, TF1), (TF3, TF2, TF0), (TF3, TF2, TF1)

6.10.2.4.1.60.1.2 Physical channel parameters

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

6.10.2.4.1.60.2 Downlink

6.10.2.4.1.60.2.1 Transport channel parameters

6.10.2.4.1.60.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

Higher layer	RAB/S	Signalling RB	RAB
PDCP	PDCP	header size, bit	8
RLC	Logica	Il channel type	DTCH
	RLC m	node	UM
	Payloa	ad sizes, bit	920, 304, 96
	Max da	ata rate, bps	46000
	UMD F	PDU header, bit	8
MAC	MAC h	neader, bit	0
	MAC n	nultiplexing	N/A
Layer 1	TrCH t	type	DCH
	TB size	es, bit	928, 312, 104
	TFS	TF0, bits	0x928
		TF1, bits	1x104
		TF2, bits	1x312
		TF3, bits	1x928
	TTI, m	S	20
	Coding type		TC
	CRC, bit		16
	Max ni	umber of bits/TTI after channel coding	2844
	RM att	tribute	180-220

6.10.2.4.1.60.2.1.2 Transport channel parameters for Interactive / DL:16kbps PS RAB

See clause 6.10.2.4.1.23b.2.1.1

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.60.2.1.4 TFCS

TFCS size	24
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1)
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF2, TF0), (TF1, TF2, TF1)
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1)
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3, TF1, TF0), (TF3, TF1, TF1), (TF3, TF2, TF0), (TF3, TF2, TF1)

6.10.2.4.1.60.2.2 Physical channel parameters

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

6.10.2.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.61.1 Uplink

6.10.2.4.1.61.1.1 Transport channel parameters

6.10.2.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	UM	
	Payload sizes, bit	320	
	Max data rate, bps	8000	
	UMD PDU header, bit	8	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	328 (alt 0, 328) (note)	
	TFS TF0, bits	0x328 (alt 1x0) (note)	
	TF1, bits	1x328	
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1044	
	Uplink: Max number of bits/radio frame before rate matching	261	
	RM attribute	135-175	
	In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.212).		

 $6.10.2.4.1.61.1.1.2 \qquad \text{Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB}$

See section 6.10.2.4.1.38b.1.1.2

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

See section 6.10.2.4.1.2.1.1.1

6.10.2.4.1.61.1.1.4 TFCS

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

6.10.2.4.1.61.1.2 Physical channel parameters

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

6.10.2.4.1.61.2 Downlink

6.10.2.4.1.61.2.1 Transport channel parameters

6.10.2.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	320
	Max data rate, bps	8000
	AMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	328 (alt 0, 328) (note)
	TFS TF0, bits	0x328 (alt 1x0) (note)
	TF1, bits	1x328
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1044
	RM attribute	135-175
NOTE: In (case of using this alternative, CRC parity bits are to	be attached any time since number of TrBlks are 1 even

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

6.10.2.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See section 6.10.2.4.1.38b.2.1.2.

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

See section 6.10.2.4.1.2.2.1.1

6.10.2.4.1.61.2.1.4 TFCS

TFCS size	8		
TFCS	(8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=		
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),		
	(TE1, TE0, TE0), (TE1, TE1, TE0), (TE1, TE0, TE1), (TE1, TE1, TE1)		

6.10.2.4.1.61.2.2 Physical channel parameters

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

6.10.2.4.1.62 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

6.10.2.4.1.62.1 Uplink

6.10.2.4.1.62.1.1 Transport channel parameters

6.10.2.4.1.62.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTC	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	40, 54, 64, 72 (alt. 0, 40, 54, 64, 72)	78, 113, 181	
	Max data rate, bps	1265	50	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A	\	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	40, 54, 64, 72 (alt. 0, 40, 54, 64, 72)	78, 113, 181	
	TFS TF0, bits	0x72(alt. 1x0) (note)	0x181	
	TF1, bits	1x40	1x78	
	TF2 bits	1x54	1x113	
	TF3, bits	1x64	1x181	
	TF4, bits	1x72	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	276	567	
	Uplink: Max number of bits/radio frame before rate matching	138	284	
	RM attribute	180-220	170-210	

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.62.1.1.3 TFCS

TFCS size	10		
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=		
	(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF4,TF3,TF0),		
	(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1), (TF4,TF3,TF1)		

6.10.2.4.1.62.1.1.4 TFC subset list

TFC subset list	3
size	
TFC subset list	0 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1)},
	1 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1)},
	2 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF4,TF3,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1), (TF4,TF3,TF1)}

6.10.2.4.1.62.1.2 Physical channel parameters

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

6.10.2.4.1.62.2 Downlink

6.10.2.4.1.62.2.1 Transport channel parameters

6.10.2.4.1.62.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.65 8.85 6.6) kbps / CS RAB

Higher Layer	RAB/Signalling RB		RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTO	CH
	RLC mode	•	TM	TM
	Payload siz	es, bit	0, 40, 54, 64, 72	78, 113, 181
	Max data ra		12 6	550
	TrD PDU he	eader, bit	0	
MAC	MAC heade	er, bit	0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	DCH
•	TB sizes, bit		0, 40, 54, 64, 72	78, 113, 181
	TFS	TF0, bits	1x0 (note 2)	0x181
	(note 1)	TF1, bits	1x40	1x78
		TF2, bits	1x54	1x113
		TF3, bits	1x64	1x181
		TF4, bits	1x72	N/A
	TTI, ms		20	20
	Coding type		CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max number of bits/TTI after channel coding		276	567
	RM attribute	9	180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.62.2.1.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

Higher layer	RAB/signalling RB User of Radio Bearer		SRB#5	
			RRC	
RLC	Logical channel t	ype	DCCH	
	RLC mode		TM	
	Payload sizes, bit	t	3	
	Max data rate, bp)S	150	
	TrD PDU header,	, bit	0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	
	TB sizes, bit		3 (alt 0, 3) (note)	
	TFS	TF0, bits	0x3 (alt 1x0) (note)	
		TF1, bits	1x3	
	TTI, ms		20	
	Coding type		CC 1/3	
	CRC, bit		8	
	Max number of bits/TTI before rate		57	
	matching			
	RM attribute		155-256	
NOTE: altern	ative parameters enab	ole the measurement "	transport channel BLER" in the UE.	

6.10.2.4.1.62.2.1.4 TFCS

TFCS size	20
TFCS	(RAB subflow#1, RAB subflow#2, DCCH 3.4, DCCH 0.15)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),
	(TF4,TF3,TF0,TF0), (TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF0),
	(TF3,TF2,TF1,TF0), (TF4,TF3,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF0,TF0,TF1,TF1),
	(TF1,TF0,TF1,TF1), (TF2,TF1,TF1,TF1), (TF3,TF2,TF1,TF1), (TF4,TF3,TF1,TF1)

6.10.2.4.1.62.2.2 Physical channel parameters

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

6.10.2.4.1.63 Interactive or background / UL:64 DL:768 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.1.63.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.63.2 Downlink

6.10.2.4.1.63.2.1 Transport channel parameters

6.10.2.4.1.63.2.1.1 Transport channel parameters for Interactive or background / DL:768 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	768000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	12x336
	TF6, bits	16 x336
	TF7, bits	20 x336
	TF8, bits	24 x336
	TF9, bits	N/A (alt 28x336)
	TF10, bits	N/A (alt 32x336)
	TF11, bits	N/A (alt 36x336)
	TF12, bits	N/A (alt 40x336)
	TF13, bits	N/A (alt 44x336)
	TF14, bits	N/A (alt 48x336)
	TTI, ms	10 (alt 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	25368 (alt 50736)
	RM attribute	110-150

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.63.2.1.3 TFCS

TFCS size	18 (alt. 30)
TFCS	(768 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1) (alt . (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0) (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1) (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1))

6.10.2.4.1.63.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading factor		8
	Number of	DPCH	2
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	608
		Number of data bits/frame	9120

6.10.2.4.2 Combinations on PDSCH and DPCH

6.10.2.4.2.1 Void

6.10.2.4.2.2 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.2.4.2.2.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.2.2.2 Downlink

6.10.2.4.2.2.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	18
	MAC multiplexing	Logical channel multiplexing on a frame by frame basis
Layer 1	TrCH type	DSCH
	TB sizes, bit	354
	TFS TF0, bits	0x354
	TF1, bits	1x354
	TF2, bits	2x354
	TF3, bits	4 x354
	TF4, bits	8 x354
	TF5, bits	12 x354
	TF6, bits	N/A (alt. 16x354)
	TF7, bits	N/A (alt. 20x354)
	TF8, bits	N/A (alt. 24x354)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	13332(alt. 26664)
	RM attribute	110-150

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.2.2.1.3 TFCS

PDSCH	TFCS	6 (alt.9)
	size	
	TFCS	384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5
		(alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8)
DPCH	TFCS	2
Downlink	size	
associated	TFCS	SRBs for DCCH = TF0, TF1
with		
PDSCH		

6.10.2.4.2.2.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 384 kbps / PS RAB, DSCH
	DTX position	on	N/A (SingleTrCH)
	Minimum sp	oreading factor	8
DPCH	RAB or SRI	B, TrCh	3.4 kbps SRB for DCCH, DCH
Downlink	DTX position	on	N/A (SingleTrCH)
associated	Spreading factor		256
with	DPCCH	Number of TFCI bits/slot	2
PDSCH		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	12
		Number of data bits/frame	180

6.10.2.4.2.3 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.2.3.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.2.3.2 Downlink

6.10.2.4.2.3.2.1 Transport channel parameters

6.10.2.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

Higher layer	RAB/Signalling RB		RAB
RLC	Logical ch	nannel type	DTCH
	RLC mode	е	AM
	Payload s	izes, bit	640
	Max data	rate, bps	2048000
	AMD PDU	J header, bit	16
MAC	MAC header, bit		18
	MAC mult	iplexing	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 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/A (SingleTrCH)
	Minimum s	oreading factor	4
DPCH	RAB or SR	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

6.10.2.4.2.4 Void

6.10.2.4.2.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background

/ UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.5.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.5.2 Downlink

6.10.2.4.2.5.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.5.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.2.4.2.2.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.5.2.1.4 TFCS

PDSCH	TFCS	6 (alt.9)
	size	
	TFCS	384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5
		(alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8)
DPCH	TFCS	6
Downlink	size	
associated	TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) =
with		(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),
PDSCH		(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.2.5.2.2 Physical channel parameters

PDSCH	PDSCH RAB or SRB, TrCh Interactive or background / 384 kbps / PDTX position N/A (SingleTrCH)		Interactive or background / 384 kbps / PS RAE	B, DSCH
			N/A (SingleTrCH)	
	Minimum spreading factor		8	
DPCH Downlink associated	wnlink		Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH	
with	DTX position		Fixed	
PDSCH	Spreading factor		128	
	DPCCH	Number of TFCI bits/slot	2	
		Number of TPC bits/slot	2	
		Number of Pilot bits/slot	4	
	DPDCH Number of data bits/slot		32	
		Number of data bits/frame	480	

6.10.2.4.2.6 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.6.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.6.2 Downlink

6.10.2.4.2.6.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.6.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB See clause 6.10.2.4.2.3.2.1.1.

6.10.2.4.2.6.2.1.3 Transport channel parameters for DL: 3.4 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	40 kbps DAD, TEO TEA TE2 TE2 TE4 TE5 TEC TE7 TE0 TE0 TE40					
	1103	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 F		RAB, DSCH	
	DTX position Minimum spreading factor		N/A (SingleTrCH)	
			4	
		RB, TrCh	Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH	
with	DTX positi	on	Fixed	
PDSCH	Spreading	factor	128	
	DPCCH	Number of TFCI bits/slot	2	
		Number of TPC bits/slot	2	
		Number of Pilot bits/slot	4	
	DPDCH Number of data bits/slot		32	
		Number of data bits/frame	480	

6.10.2.4.3 Combinations on SCCPCH

6.10.2.4.3.1 Stand-alone signalling RB for PCCH

6.10.2.4.3.1.1 Transport channel parameters

6.10.2.4.3.1.1.1 Transport channel parameter of SRB for PCCH

Higher layer	RAB/signalling RB		SRB	
	User of Radio Bearer		RRC	
RLC	Logical channel type		PCCH	
	RLC mode		TM	
	Payload sizes, bit		240 (alt. 80)	
	Max data rate, bps		24000 (alt. 8000)	
	TrD PDU header, bit		0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		PCH	
	TB sizes, bit		240 (alt. 80)	
	TFS T	F0, bts	0x240 (alt. 0x80)	
	Т	F1, bits	1x240 (alt. 1x80)	
	TTI, ms		10	
	Coding type		CC 1/2	
	CRC, bit		16	
	Max number of bits/T matching	TI 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 (note)	128	128	128	166
	Max data rate, bps		30400 (alt. 45600)	27200 or 2400 (alt. 40800 or 36000)	25600 (alt. 38400)	25600 (alt. 38400)	25600 (alt. 38400)	33200 (alt. 49800)
	AMD/UMD/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		10					
	Coding type		CC 1/2					
	CRC, bit		16					
	Max number of bits/TTI before		752 (alt. 1136)					
	rate matching	1	· ' '					
	RM attribute			200-240				
NOTE:	MAC header s	ize and PLC paylo	ad size depe	nd on use of	U-RNTI or C	-RNTI.		

6.10.2.4.3.2.1.3 TFCS

TFCS siz	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:	ese TFCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for	
	C of (TF2, TF0).	

6.10.2.4.3.2.2 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	FAC	FACH	
	TB sizes, bit	36	0	
	TFS TF0, bits	0x3	60	
	TF1, bits	1x3	60	
	TTI, ms	10		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	1140		
	RM attribute	110- 150		

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

See clause 6.10.2.4.3.2.1.2

6.10.2.4.3.2a.1.3 TFCS

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

6.10.2.4.3.2a.2 Physical channel parameters

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

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

6.10.2.4.3.3.1 Transport channel parameters

6.10.2.4.3.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.2.4.3.2.1

6.10.2.4.3.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1

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

See clause 6.10.2.4.3.2.1.2

6.10.2.4.3.3.1.4 TFCS

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

6.10.2.4.3.3.2 Physical channel parameters

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

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

6.10.2.4.3.4.1 Transport channel parameters

6.10.2.4.3.4.1.1 Transport channel parameters of RB for CTCH

Higher layer	RAB/signalling RB		N/A
ing. io., c.	User of Radio Bearer		BMC
RLC	Logical channel type		СТСН
	RLC mode		UM
	Payload sizes, bit		152
	Max data rate, bps		15200
	UMD PDU header, bit		8
MAC	MAC header, bit		8
	MAC multiplexing		N/A
Layer 1	TrCH type		FACH
	TB sizes, bit		168
	TFS TF	0, bts	0x168
	TF	-1, bits	1x168
	TTI, ms		10
	Coding type		CC 1/3
	CRC, bit		16
	Max number of bits/TTI before rate		576
	matching		
	RM attribute		200-240

6.10.2.4.3.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

Higher	RAB/signalling RB		SRB#0	SRB#5			
layer	User of Radio Bear	er	RRC	RRC			
RLC	Logical channel typ	е	CCCH	BCCH			
	RLC mode		UM	TM			
	Payload sizes, bit		152	166			
	Max data rate, bps		15200	16600			
	AMD/UMD/TrD PD bit	U header,	8	0			
MAC	MAC header, bit		8	2			
IVIAC	MAC multiplexing		2 logical channel multiplexing				
Layer 1	TrCH type		FACH				
	TB sizes, bit		168				
	TFS TF0,	bits	0x168				
	TF1,	bits	1x168				
	TTI, ms		10				
	Coding type		CC	C 1/3			
	CRC, bit Max number of bits/TTI		16				
			576				
	before rate matchir	ng					
	RM attribute)-240			

6.10.2.4.3.4.1.3 TFCS

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

6.10.2.4.3.4.2 Physical channel parameters

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

6.10.2.4.4 Combinations on PRACH

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

6.10.2.4.4.1.1 Transport channel parameters

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

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ 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

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			
MAC	MAC header, bit	24	2	24	24	24	24			
	MAC multiplexing			6 logical chann	el multiplexing					
Layer 1	TrCH type			RA	CH					
	TB sizes, bit	360	168	168	168	168	168			
	TFS TF0, bits		1x168							
	TF1, bits		1x360							
	TTI, ms		20 (alt. 10)							
	Coding type		CC 1/2							
	CRC, bit	16								
	Max number of bits/TTI after channel coding	768	384	384	384	384	384			
	Max number of bits/ Radio frame before rate matching	384 (alt. 768)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)			

6.10.2.4.4.1.1.2 TFCS

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

6.10.2.4.4.1.2 Physical channel parameters

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

6.10.2.4.4.2 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	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH
	type							
	RLC mode	AM	AM	TM	UM	AM	AM	AM
	Payload sizes, bit	320	320	166	136	128	128	128
	Max data rate, bps	32000	32000	16600	13600	12800	12800	12800
	AMD/UMD/TrD	16	16	0	8	16	16	16
	PDU header, bit							

Higher	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background RAB	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
MAC	MAC header, bit	24	24	2	24	24	24	24
	MAC multiplexing			7 logical	channel mult	iplexing		
Layer	TrCH type				RACH			
1	TB sizes, bit	360	360	168	168	168	168	168
	TFS TF0, bits				1x168			
	TF1, bits				1x360			
	TTI, ms				20 (alt. 10)			
	Coding type		CC 1/2					
	CRC, bit	16						
	Max number of bits/TTI after channel coding	768	768	384	384	384	384	384
	Max number of bits/ Radio frame before rate matching	384 (alt. 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

6.10.2.4.5 Combinations on DPCH and HS-PDSCH

6.10.2.4.5.1 Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.1.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.5.1.2 Downlink

6.10.2.4.5.1.2.1 Transport channel parameters

6.10.2.4.5.1.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.1.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320 (alt. 640)
	Max data rate, bps	depends on UE category NOTE1
	AMD PDU header, bit	16
MAC	MAC-d header, bit	0
	MAC multiplexing	N/A
	MAC-d PDU size, bit	336 (alt. 656)
	MAC-hs header fixed part, bit	21
Layer 1	TrCH type	HS-DSCH
	TTI	2 ms
	Coding type	TC
	CRC, bit	24

NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]).

6.10.2.4.5.1.2.1.2 Transport channel parameters for DCH

6.10.2.4.5.1.2.1.2.1 Transport channel parameters for UL:3.4 DL: 3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.1.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.1.2.2 Physical channel parameters

6.10.2.4.5.1.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.1.2.2.21 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1:

HS-PDSCH	Number of processes	2, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.2Mbps, (alt. 400kbps)

UE HS-DSCH Physical Layer category 2:

HS-PDSCH	Number of processes	2, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.2Mbps, (alt. 600kbps)]

UE HS-DSCH Physical Layer category 3:

HS-PDSCH	Number of processes	3, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.8Mbps, (alt. 900kbps)

UE HS-DSCH Physical Layer category 4:

HS-PDSCH	Number of processes	3, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.8Mbps, (alt. 1.2Mbps)

UE HS-DSCH Physical Layer category 5:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	3.65Mbps, (alt. 3.6Mbps)

UE HS-DSCH Physical Layer category 6:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	3.65Mbps, (alt. 3.65Mbps)

UE HS-DSCH Physical Layer category 7:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	7.3Mbps, (alt. 7.2Mbps)

UE HS-DSCH Physical Layer category 8:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	7.3Mbps, (alt. 7.3Mbps)

UE HS-DSCH Physical Layer category 9:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	10.2Mbps, (alt. 10.2Mbps)

UE HS-DSCH Physical Layer category 10:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	14.4Mbps, (alt. 10.8Mbps)

UE HS-DSCH Physical Layer category 11:

HS-PDSCH	Number of processes	3, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	900kbps, (alt. 450kbps)

UE HS-DSCH Physical Layer category 12:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.8Mbps, (alt. 1.8Mbps)

6.10.2.4.5.2 Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.5.2.1 Uplink

See clause 6.10.2.4.1.34.1.

6.10.2.4.5.2.2 Downlink

6.10.2.4.5.2.2.1 Transport channel parameters

6.10.2.4.5.2.2.1.1 Transport channel parameters for HS-DSCH

6.10.2.4.5.2.2.1.1.1 MAC-d flow parameters for Interactive or background / DL: [max bit rate depending on UE category] / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320 (alt. 640)
	Max data rate, bps	depends on UE category NOTE1
	AMD PDU header, bit	16
MAC	MAC-d header, bit	0
	MAC multiplexing	N/A
	MAC-d PDU size, bit	336 (alt. 656)
	MAC-hs header fixed part, bit	21
Layer 1	TrCH type	HS-DSCH
	TTI	2 ms
	Coding type	TC
	CRC, bit	24

NOTE1: The peak throughput may be limited by the maximum number of MAC-d PDUs that can be included in a single MAC-hs PDU (see [25.321]).

6.10.2.4.5.2.2.1.2 Transport channel parameters for DCH

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.5.2.2.1.2.2 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.5.2.2.2 Physical channel parameters

6.10.2.4.5.2.2.2.1 Physical channel parameters on DPCH

See clause 6.10.2.4.1.2.2.2.

6.10.2.4.5.2.2.2.2 Physical channel parameters on HS-PDSCH

Note that each alternative configuration in physical channel parameters is stand-alone and can be associated with any of the RAB alternatives in the transport channel parameters.

UE HS-DSCH Physical Layer category 1:

HS-PDSCH	Number of processes	2, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.2Mbps, (alt. 400kbps)

UE HS-DSCH Physical Layer category 2:

HS-PDSCH	Number of processes	2, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.2Mbps, (alt. 600kbps)]

UE HS-DSCH Physical Layer category 3:

HS-PDSCH	Number of processes	3, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.8Mbps, (alt. 900kbps)

UE HS-DSCH Physical Layer category 4:

HS-PDSCH	Number of processes	3, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.8Mbps, (alt. 1.2Mbps)

UE HS-DSCH Physical Layer category 5:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	3.65Mbps, (alt. 3.6Mbps)

UE HS-DSCH Physical Layer category 6:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	3.65Mbps, (alt. 3.65Mbps)

UE HS-DSCH Physical Layer category 7:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	7.3Mbps, (alt. 7.2Mbps)

UE HS-DSCH Physical Layer category 8:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	7.3Mbps, (alt. 7.3Mbps)

UE HS-DSCH Physical Layer category 9:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	10.2Mbps, (alt. 10.2Mbps)

UE HS-DSCH Physical Layer category 10:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	14.4Mbps, (alt. 10.8Mbps)

UE HS-DSCH Physical Layer category 11:

HS-PDSCH	Number of processes	3, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	900kbps, (alt. 450kbps)

UE HS-DSCH Physical Layer category 12:

HS-PDSCH	Number of processes	6, (alt. 8)
	Process memory size	Split equally among all processes
	Max Data Rate	1.8Mbps, (alt. 1.8Mbps)

6.10.3 RAB and signalling RB for TDD

6.10.3.1 RABs and signalling RBs

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

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

Table 6.10.3.1.1: Prioritised RABs.

#	Traffic class ^[3]	SSD ^[3]	Max. rate, kbps	CS/PS
1	Conversational	Speech	UL:12.2 DL:12.2	CS
1a		•	UL: (12.2 7.95 5.9	
	Conversational	Speech	4.75) DL(12.2 7.95	CS
		-	5.9 4.75)	
2	Conversational	Speech	UL:10.2 DL:10.2	CS
2a			UL:(10.2, 6.7, 5.9,	
	Conversational	Speech	4.75) DL:10.2, 6.7,	CS
			5.9, 4.75)	
3	Conversational	Speech	UL:7.95 DL:7.95	CS
4	Conversational	Speech	UL:7.4 DL:7.4	CS
4a			UL:(12.2 7.95 5.9	
	Conversational	Speech	4.75, DL:(12.2 7.95	CS
			5.9 4.75)	
5	Conversational	Speech	UL:6.7 DL:6.7	CS
6	Conversational	Speech	UL:5.9 DL:5.9	CS
7	Conversational	Speech	UL:5.15 DL:5.15	CS
8	Conversational	Speech	UL:4.75 DL:4.75	CS
9	Conversational	Unknown	UL:28.8 DL:28.8	CS
10	Conversational	Unknown	UL:64 DL:64	CS
11	Conversational	Unknown	UL:32 DL:32	CS
11a	Conversational	Unknown	UL:8 DL:8	CS
12	Streaming	Unknown	UL:14.4 DL:14.4	CS
13	Streaming	Unknown	UL:28.8 DL:28.8	CS
14	Streaming	Unknown	UL:57.6 DL:57.6	CS
15	Void			
15a	Streaming	Unknown	UL:16 DL:64	PS
16	Void			
17	Void			
18	Void			
19	Void			
20	Interactive or Background	N/A	UL:32 DL:8	PS
20a	Interactive or Background	N/A	UL:8 DL:8	PS
20b	Interactive or Background	N/A	UL:16 DL:16	PS
20c	Interactive or Background	N/A	UL:32 DL:32	PS
21	Void			
22	Interactive or Background	N/A	UL:32 DL:64	PS
23	Interactive or Background	N/A	UL:64 DL:64	PS
24	Interactive or Background	N/A	UL:64 DL:128	PS
25	Interactive or Background	N/A	UL:128 DL:128	PS
26	Interactive or Background	N/A	UL:64 DL:384	PS
27	Interactive or Background	N/A	UL:128 DL:384	PS
28	Interactive or Background	N/A	UL:384 DL:384	PS
29	Interactive or Background	N/A	UL:64 DL:2048	PS
30	Interactive or Background	N/A	UL:128 DL:2048	PS
31	Void			
32	Interactive or Background	N/A	UL:64 DL:256	PS
33	Interactive or Background	N/A	UL:0 DL:32	PS
34	Interactive or Background	N/A	UL:32 DL:0	PS
35	Interactive or Background	N/A	UL:64 DL:144	PS
36	Interactive or Background	N/A	UL:144 DL:144	PS

#	Maximum rate, kbps	Logical channel	PhyCh onto which
		Logical chamici	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. 13.6)	DCCH	SCCPCH
5	UL:16.8	CCCH	PRACH
6	DL:32 (alt. 16)	CCCH	SCCPCH
7	DL:33.6 (alt. 16.8)	BCCH:	SCCPCH
8	DL:12 (alt. 8)	PCCH	SCCPCH
9	UL:16.8	SHCCH	PRACH
10	UL:16.8	SHCCH	PRACH or PUSCH
11	DL:32 (alt. 16)	SHCCH	SCCPCH
12	DL:16	SHCCH	SCCPCH or PDSCH

Table 6.10.3.1.2: Signalling RBs

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.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10)Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.

- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19). Void.
- 20). Void.
- 21). Void.
- 22) Void..
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 24) Void..
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 31)Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34)Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35)Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2048 kbps / PS RAB \pm UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37) Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a) Conversational / speech / 12.2 kbps / CS RAB
 - + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38b) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background/ UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38c) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background/ UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38d) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background/ UL:64 DL:64 kbps / PS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38e) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
 - + Interactive or background / UL:0 DL:0 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38f) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38g) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
 - + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38h) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
 - + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38i) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 38j) Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB
 - + Interactive or background / UL:64 DL:128 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:32 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL: 3.4 kbps SRBs for DCCH.

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

- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 59) Reserved for future use
- 60) Reserved for future use
- 61) Conversational / unknown / UL:8 DL:8 kbps / PS RAB
 - + Interactive or Background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH

Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
 - + UL: 3.4/16.8 DL:3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
 - + UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
 - + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
 - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
 - + UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
 - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 4) Interactive or background / UL:384 DL:2048 kbps / PS RAB
 - + UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
 - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.

Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
 - + Interactive or background / UL:64 DL:256 kbps / PS RAB
 - + UL:16.8 kbps SRBs for CCCH and SHCCH
 - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
 - + Interactive or background / UL:64 DL:384 kbps / PS RAB
 - + UL:16.8 kbps SRBs for CCCH and SHCCH
 - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
 - + Interactive or background / UL:64 DL:2048 kbps / PS RAB
 - + UL:16.8 kbps SRBs for CCCH and SHCCH
 - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

Combinations on SCCPCH

- 1) Stand-alone 12 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH
 - + SRB for BCCH.

- 2a) Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB
 - + SRBs for CCCH
 - + SRB for DCCH
 - + SRB for BCCH

2b)SRBs for CCCH

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

3a) SRB for PCCH

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

Combinations on PRACH

- 1) Interactive or background / UL:12.8 kbps / PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH.

6.10.3.3 Example of linkage between RABs and services

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1: Traffic classes. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.3.3.1.

Table 6.10.3.3.1: Example of linkage between RABs and services

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

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

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

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

6.10.3.4 Typical radio parameter sets

6.10.3.4.1 Combinations on DPCH

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

6.10.3.4.1.1.1 Uplink

6.10.3.4.1.1.1 Transport channel parameters

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

Higher layer	RAB/signalling RB	RAB/signalling RB		SRB#2	SRB#3	SRB#4		
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT		
					High priority	Low priority		
RLC	Logical channel type	Э	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 hea	ader, bit	8	16	16	16		
MAC	MAC header, bit		4	4	4	4		
	MAC multiplexing		4 logical channel multiplexing					
Layer 1	TrCH type		DCH					
	TB sizes, bit		148 (alt. 0,148) (note)					
	TFS	TF0, bits	0x148 (alt 1x0) (note)					
		TF1, bits		1x1	48			
	TTI, ms	TTI, ms		80				
	Coding type		CC 1/3					
	CRC, bit		16					
	Max number of bits/	TTI before rate	516					
	<u> </u>	matching						
		Max number of bits/radio frame before		65				
		rate matching						
	RM attribute			155-	185			
NOTE: alternativ	e parameters enable the	e measurement "tran	sport channel	BLER" in the U	JTRAN.			

6.10.3.4.1.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = (TF0), (TF1)
Note: The first TFC	is required for the alt. case, optional otherwise.

6.10.3.4.1.1.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips			
	Codes and time slots	SF16 x 1 code x 1 time slot			
	Max. Number of data bits/radio frame	234			
	TFCI code word	8 bits			
	TPC	2 bits			
	Puncturing Limit	1			
Note: In case the	Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be				
4 bits					

6.10.3.4.1.1.2 Downlink

6.10.3.4.1.1.2.1 Transport channel parameters

6.10.3.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

Higher layer	RAB/signalling RB	RAB/signalling RB		SRB#2	SRB#3	SRB#4	
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT	
					High priority	Low priority	
RLC	Logical channel type		DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		1700	1600	1600	1600	
	AMD/UMD PDU head	ler, 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	0 x148 (alt. 1x0) (note)				
		TF1, bits	1x148				
	TTI, ms		80				
	Coding type		CC 1/3				
	CRC, bit		16				
	Max number of bits/T	TI before rate	516				
	matching Max number of bits/radio frame before rate matching						
			65				
	RM attribute			155-	185		
NOTE: alternative	e parameters enable the m	neasurement "trans	sport channel I	BLER" in the U	E.		

6.10.3.4.1.1.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = (TF0), (TF1)
	is required for the alt. case, optional otherwise.

6.10.3.4.1.1.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips			
	Codes and time slots	SF16 x 1 code x 1 time slot			
	Max. Number of data bits/radio frame	236bits			
	TFCI code word	8bits			
	Puncturing limit	1			
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4					
bits					

6.10.3.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.10.3.4.1.1a.1 Uplink

6.10.3.4.1.1a.1.1 Transport channel parameters

6.10.3.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

Higher layer	RAB/signalling RB	RAB/signalling RB		SRB#2	SRB#3	SRB#4	
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT	
					High priority	Low priority	
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		1700	1600	1600	1600	
	AMD/UMD PDU he	ader, bit	8	16	16	16	
MAC	MAC header, bit		4	4	4	4	
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type		DCH				
	TB sizes, bit		148				
	TFS	TF0, bits	0x148				
		TF1, bits	1x148				
	TTI, ms		20				
	Coding type		CC 1/3				
	CRC, bit			16			
	Max number of bits/TTI before rate matching		516				
	Max number of bits	/radio frame before		25	58		
	rate matching						

6.10.3.4.1.1a.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = (TF0), (TF1)

6.10.3.4.1.1a.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	266
	TFCI code word	8 bits
	TPC	2 bits
	Puncturing Limit	1
	Repetition period	8
	Repetition length	2
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits		

6.10.3.4.1.1a.2 Downlink

6.10.3.4.1.1a.2.1 Transport channel parameters

6.10.3.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

Higher layer	RAB/signalling RB	RAB/signalling RB		SRB#2	SRB#3	SRB#4
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT
					High priority	Low priority
RLC	Logical channel typ	Logical channel type		DCCH	DCCH	DCCH
	RLC mode		UM	AM	AM	AM
	Payload sizes, bit		136	128	128	128
	Max data rate, bps		1700	1600	1600	1600
	AMD/UMD PDU he	eader, bit	8	16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing		
Layer 1	TrCH type		DCH			
	TB sizes, bit		148			
	TFS	TF0, bits		0 x	148	
		TF1, bits		1x1	48	
	TTI, ms			2	0	
	Coding type		CC 1/3			
	CRC, bit			1	6	
	Max number of bits matching	Max number of bits/TTI before rate matching		51	16	
	Max number of bits/radio frame before rate matching			25	58	

6.10.3.4.1.1a.2.1.2 TFCS

TFCS size	2		
TFCS	SRBs for DCCH = (TF0), (TF1)		
Note: The first TFC	Note: The first TFC is optional		

6.10.3.4.1.1a.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	268 bits
	TFCI code word	8 bits
	Puncturing limit	1
	Repetition period	8
	Repetition length	2
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4		
bits		

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 Beare	r	RRC	RRC	NAS_DT	NAS_DT
					High priority	Low priority
RLC	Logical channel type		DCCH	DCCH	DCCH	DCCH
	RLC mode		UM	AM	AM	AM
	Payload sizes, bit		136	128	128	128
	Max data rate, bps		3400	3200	3200	3200
	AMD/UMD PDU hea	der, bit	8	16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing		4	4 logical chann	el 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		40			
	Coding type		CC 1/3			
	CRC, bit		16			
	Max number of bits/TTI before rate matching Max number of bits/radio frame before rate matching RM attribute			51	6	
				12	29	
				155-	165	
NOTE: alternativ	e parameters enable the	measurement "tran	sport channel	BLER" in the U	JTRAN.	-

6.10.3.4.1.2.1.1.2 TFCS

TFCS size	2		
TFCS	SRBs for DCCH = (TF0), (TF1)		
Note: The first TFC	Note: The first TFC is required for the alt. case, optional otherwise.		

6.10.3.4.1.2.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	234 bits
	TFCI code word	8bits
	TPC	2 bit
	Puncturing Limit	1
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be		
4 bits		

6.10.3.4.1.2.2 Downlink

6.10.3.4.1.2.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB	SRB#1	SRB#2	SRB#3	SRB#4
	User of Radio Bearer	RRC	RRC	NAS_DT	NAS_DT
				High priority	Low priority
RLC	Logical channel type	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 header, bit	8	16	16	16
MAC	MAC header, bit	4	4	4	4
	MAC multiplexing		4 logical chann	nel multiplexing	
Layer 1	TrCH type DCH				
	TB sizes, bit		148 (alt. 0, 148) (note)		
	TFS TF0, bits		0x148 (alt.	1x0) (note)	
	TF1, bits		1x148		
	TTI, ms		40		
	Coding type		CC 1/3		
	CRC, bit		16		
	Max number of bits/TTI before rate matching		5	16	
	Max number of bits/radio frame befo rate matching	те	12	29	
	RM attribute		155	-165	
NOTE: alternativ	e parameters enable the measurement "	ransport channel	BLER" in the l	JE.	

6.10.3.4.1.2.2.1.2 TFCS

TFCS size	2	
TFCS	SRBs for DCCH = (TF0), (TF1)	
Note: The first TFC is required for the alt. case, optional otherwise.		

6.10.3.4.1.2.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips			
	Codes and time slots	SF16 x 1 code x 1 time slot			
	Max. Number of data bits/radio frame	236			
	TFCI code word	8bits			
	Puncturing limit	1			
Note: In case the f	Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4				
bits					

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

6.10.3.4.1.3.1 Uplink

6.10.3.4.1.3.1.1 Transport channel parameters

6.10.3.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4
	User of Radio Bea	rer	RRC	RRC	NAS_DT	NAS_DT
					High priority	Low priority
RLC	Logical channel type		DCCH	DCCH	DCCH	DCCH
	RLC mode		UM	AM	AM	AM
	Payload sizes, bit		136	128	128	128
	Max data rate, bps		13600	12800	12800	12800
	AMD/UMD PDU he	eader, bit	8	16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing	MAC multiplexing		4 logical chann	el multiplexing	
Layer 1	ayer 1 TrCH type		DCH			
	TB sizes, bit		148 (alt. 0,148) (note)			
	TFS	TF0, bits	0x148 (alt. 1x0) (note)			
		TF1, bits		1x1	48	
	TTI, ms		10			
	Coding type		CC 1/3			
	CRC, bit		16			
	Max number of bits	s/TTI before rate		51	6	
	matching Max number of bits/radio frame before					
				51	6	
rate matching						
NOTE: alternativ	e parameters enable th	ne measurement "tran	sport channel	BLER" in the U	JTRAN.	

6.10.3.4.1.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = (TF0), (TF1)
	is required for the alt. case, optional otherwise.

6.10.3.4.1.3.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips	
	Codes and time slots	SF8 x 1 code x 1 time slot	
	Max. Number of data bits/radio frame	468 bits	
	TFCI code word	8bits	
	TPC	2 bits	
	Puncturing Limit	0.88	
Note: In case the	Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be		

Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4 bits

6.10.3.4.1.3.2 Downlink

6.10.3.4.1.3.2.1 Transport channel parameters

6.10.3.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4
	User of Radio Bear	er	RRC	RRC	NAS_DT	NAS_DT
					High priority	Low priority
RLC	Logical channel typ	Logical channel type		DCCH	DCCH	DCCH
	RLC mode		UM	AM	AM	AM
	Payload sizes, bit		136	128	128	128
	Max data rate, bps		13600	12800	12800	12800
	AMD/UMD PDU he	eader, bit	8	16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type	type		DCH		
	TB sizes, bit		148 (alt. 0,148) (note)			
	TFS	TF0, bits	0x148 (alt. 1x0) (note)			
		TF1, bits	1x148			
	TTI, ms		10			
	Coding type		CC 1/3			
	CRC, bit		16			
	Max number of bits matching	Max number of bits/TTI before rate		516		
Max number of bits/radio frame before rate matching		516				
NOTE: alternative	e parameters enable the	e measurement "trans	sport channel	BLER" in the U	IE	

6.10.3.4.1.3.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = (TF0), (TF1)
	is required for the alt. case, optional otherwise.

6.10.3.4.1.3.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips	
	Codes and time slots	SF16 x 2 codes x 1 time slot	
	Max. Number of data bits/radio frame	480bits	
	TFCI code word	8 bits	
	Puncturing limit	0.92	
Note: In case the f	lote: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4		
bits			

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

6.10.3.4.1.4.1 Uplink

6.10.3.4.1.4.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3	
RLC	Logical channel type		DTCH		
	RLC mode	TM	TM	TM	
	Payload sizes, bit	39, 81 (alt. 0, 39, 81)	103	60	
	Max data rate, bps		12200		
	TrD PDU header, bit		0		
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type	DCH	DCH	DCH	
	TB sizes, bit	39, 81 (alt. 0, 39, 81)	103	60	
	TFS TF0, bits	0x81(alt. 1x0) (note)	0x103	0x60	
	TF1, bits	1x39	1x103	1x60	
	TF2, bits	1x81	N/A	N/A	
	TTI, ms	20	20	20	
	Coding type	CC 1/3	CC 1/3	CC 1/2	
	CRC, bit	12	N/A	N/A	
	Max number of bits/TTI after channel coding	303	333	136	
	Max number of bits/radio frame before rate matching	152	167	68	
	RM attribute	180-220	170-210	215-256	

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

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

See clause 6.10.3.4.1.2.1.1.1

6.10.3.4.1.4.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.4.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.72

6.10.3.4.1.4.2 Downlink

6.10.3.4.1.4.2.1 Transport channel parameters

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

Higher Layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type			DTCH	
	RLC mode		TM	TM	TM
	Payload si	zes, bit	39,81 (alt. 0, 39, 81)	103	60
	Max data r	ate, bps		12200	
	TrD PDU h	neader, bit		0	
MAC	MAC head	er, bit		0	
	MAC multi	plexing		N/A	
Layer 1	TrCH type		DCH	DCH	DCH
•	TB sizes, bit		39,81 (alt. 0,39,81)	103	60
	TFS (note 1)	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	е	CC 1/3	CC 1/3	CC 1/2
	CRC, bit		12	N/A	N/A
	Max number of bits/TTI after channel coding		303	333	136
	Max numb before rate	er of bits/radio frame matching	152	167	68
	RM attribu	te	180-220	170-210	215-256

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.4.2.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.4.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.76

6.10.3.4.1.4a Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.4a.1 Uplink

6.10.3.4.1.4a.1.1 Transport channel parameters

Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) 6.10.3.4.1.4a.1.1.1 kbps / CS RAB

Higher layer	RAB/Sigr	nalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type RLC mode			DTCH	
			TM	TM	TM
	Payload s	sizes, bit	39, 42, 55, 75, 81	53, 63, 84, 103	60
			(alt. 0, 39, 42, 55, 75, 81)		
	Max data	rate, bps		12200	
	TrD PDU	header, bit		0	
MAC	MAC hea	der, bit		0	
	MAC mul	tiplexing		N/A	
Layer 1	TrCH type	Э	DCH	DCH	DCH
	TB sizes,	bit	39, 42, 55, 75, 81	53, 63, 84, 103	60
			(alt. 0, 39, 42, 55,		
			75, 81)		
	TFS	TF0, bits	0x81(alt. 1x0)	0x103	0x60
			(note)		
		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		303	333	136
	channel coding				
	Max num	ber of bits/radio frame	152	167	68
	before ra	te matching			
	RM attrib	ute	180-220	170-210	215-256
NOTE:	In case of us	sing this alternative, CR0 rBlks are 1 even if there	C parity bits are to be a	attached to RAB subflo	w#1 any time since

number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222)

6.10.3.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.4a.1.1.3 **TFCS**

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),
	(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)
Note: In case T	B size zero is configured for any transport channel the first TEC is required; it is optional otherwise

6.10.3.4.1.4a.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word 16 bits	
	TPC	2 bit
	Puncturing Limit	0.72

6.10.3.4.1.4a.2 Downlink

6.10.3.4.1.4a.2.1 Transport channel parameters

6.10.3.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

Higher layer	RAB/Sign	alling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type			DTCH	•
	RLC mod		TM	TM	TM
	Payload s	izes, bit	39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60
	Max data	rate, bps		12 200	
	TrD PDU	header, bit		0	
MAC	MAC head	der, bit		0	
	MAC mult	iplexing		N/A	
Layer 1	TrCH type)	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 type		CC 1/3	CC 1/3	CC 1/2
	CRC, bit		12	N/A	N/A
	Max number of bits/TTI after channel coding		303	333	136
	Max number of bits/radio frame before rate matching		152	167	68
	RM attribute		180-220	170-210	215-256

Transport channel parameters for DL:3.4 kbps SRBs for DCCH 6.10.3.4.1.4a.2.1.2

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.4a.2.1.3 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),
	(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)
Note: In case TB s	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.4a.2.2 Physical channel parameters

DPCH Downlink	Midamble 512 chips	
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.76

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

6.10.3.4.1.5.1 Uplink

6.10.3.4.1.5.1.1 Transport channel parameters

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

Higher Layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical ch	annel type		DTCH	•
	RLC mode		TM	TM	TM
	Payload si	zes, bit	39, 65 (alt. 0, 39, 65)	99	40
	Max data	rate, bps	, , ,	10200	
	TrD PDU I	neader, bit		0	
ИАС	MAC head	ler, bit		0	
	MAC multiplexing			N/A	
_ayer 1	TrCH type		DCH	DCH	DCH
	TB sizes, bit		39, 65 (alt. 0, 39, 65)	99	40
	TFS	TF0, bits	0x65 (alt. 1x0) (note)	0x99	0x40
		TF1, bits	1x39	1x99	1x40
		TF2, bits	1x65	N/A	N/A
	TTI, ms		20	20	20
	Coding type		CC 1/3	CC 1/3	CC 1/2
	CRC, bit		12	N/A	N/A
	Max number of bits/TTI after channel coding		255	321	96
	Max number of bits/radio frame before rate matching		128	161	48
	RM attribute		180-220	170-210	215-256

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.5.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)
Note: In case TB siz	e zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.5.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.40

6.10.3.4.1.5.2 Downlink

6.10.3.4.1.5.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type		DTCH	
	RLC mode	TM	TM	TM
	Payload sizes, bit	39,65 (alt. 0, 39, 65)	99	40
	Max data rate, bps		10200	
	TrD PDU header, bit		0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
_ayer 1	TrCH type	DCH	DCH	DCH
,	TB sizes, bit	39, 65 (alt.0,39,65)	99	40
	TFS TF0, bits	0x65 (alt,1x0) (note)	0x99	0x40
	(note 1) TF1, bits	1x39	1x99	1x40
	TF2, bits	1x65	N/A	N/A
	TTI, ms	20	20	20
	Coding type	CC 1/3	CC 1/3	CC 1/2
	CRC, bit	12	N/A	N/A
	Max number of bits/TTI after channel coding	255	321	96
	Max number of bits/radio frame before rate matching	128	161	48
	RM attribute	180-220	170-210	215-256

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.5.2.1.3 **TFCS**

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)
Note: In case TB siz	e zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.5.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.40

6.10.3.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

Uplink 6.10.3.4.1.5a.1

6.10.3.4.1.5a.1.1 Transport channel parameters

6.10.3.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

Higher Layer	RAB/Signa	lling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical cha	annel type		DTCH	
	RLC mode		TM	TM	TM
	Payload siz	zes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40
	Max data r	ate, bps		10200	
	TrD PDU h	eader, bit		0	
MAC	MAC head	er, bit		0	
	MAC multip	olexing		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 typ	e	CC 1/3	CC 1/3	CC 1/2
	CRC, bit		12	N/A	N/A
	Max number channel co	er of bits/TTI after ding	255	321	96
	Max number before rate	er of bits/radio frame matching	128	161	48
	RM attribute		180-220	170-210	215-256

number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

6.10.3.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

6.10.3.4.1.5a.1.1.3 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),
	(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.5a.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.40

6.10.3.4.1.5a.2 Downlink

6.10.3.4.1.5a.2.1 Transport channel parameters

6.10.3.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

Higher Layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type			DTCH	
	RLC mode	;	TM	TM	TM
	Payload si	zes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	0, 53, 63, 76, 99	40
	Max data r	ate, bps		10 200	
	TrD PDU h	neader, bit		0	
MAC	MAC head	er, bit		0	
	MAC multi	plexing		N/A	
Layer 1	TrCH type		DCH	DCH	DCH
	TB sizes, bit		39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	0, 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 typ	е	CC 1/3	CC 1/3	CC 1/2
	CRC, bit		12	N/A	N/A

	Max number of bits/TTI after channel coding	255	321	96
	Max number of bits/radio frame before rate matching	128	161	48
	RM attribute	180-220	170-210	215-256
NOTE:	In case of using this alternative, CR0 number of TrBlks are 1 even if there			

6.10.3.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.5a.2.1.3 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),
	(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.5a.2.2 Physical channel parameters

DPCH Downlink	Midamble 512 chips	
	Codes and time slots	SF16 x 1 codes x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.40

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

6.10.3.4.1.6.1 Uplink

6.10.3.4.1.6.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2		
RLC	Logical channel type	DTO	CH		
	RLC mode	TM	TM		
	Payload sizes, bit	39, 75 (alt. 0, 39, 75)	84		
	Max data rate, bps	795	7950		
TrD PDU header, bit		0	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
Codi	ng type	CC 1/3	CC 1/3
CRC	c, bit	12	N/A
Max	number of bits/TTI after channel coding	285	276
Max number of bits/radio frame before rate		143	138
mato	ching		
RM:	attribute	180-220	170-210
of TrBlk	of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in TS25.222).		

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.6.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case TB:	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.6.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame 226 bits	
	TFCI code word 16 bits	
	TPC	2 bits
	Puncturing Limit	0.44

6.10.3.4.1.6.2 Downlink

6.10.3.4.1.6.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB		RAB subflow #1	RAB subflow #2	
RLC	Logical cha	nnel type	DTC	CH	
	RLC mode		TM	TM	
	Payload siz	es, bit	39, 75 (alt. 0, 39, 75)	84	
	Max data ra	ate, bps	795	7950	
	TrD PDU header, bit		0	0	
MAC MAC header, bit		er, bit	0		
	MAC multiplexing		N/A	4	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, b	it	39, 75 (alt. 0, 39, 75)	84	
	TFS	TF0, bits	0x75 (alt. 1x0) (note)	0x84	
	(note 1)	TF1, bits	1x39	1x84	

TF2, bits	1x75	N/A
TTI, ms	20	20
Coding type	CC 1/3	CC 1/3
CRC, bit	12	N/A
Max number of bits/TTI after channel coding	285	276
Max number of bits/radio frame before rate	143	138
matching		
RM attribute	180-220	170-210

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.6.2.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case TB	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.6.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.48

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

6.10.3.4.1.7.1 Uplink

6.10.3.4.1.7.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTC	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 61 (alt. 0, 39, 61)	87	
	Max data rate, bps	740	7400	
	TrD PDU header, bit	0	0	
MAC	MAC header, bit	0	0	
	MAC multiplexing	N/A	N/A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 61 (alt. 0, 39, 61)	87	
	TFS TF0, bits	0x61 (alt. 1x0) (note)	0x87	
	TF1, bits	1x39	1x87	

TF2, bits	1x61	N/A	
TTI, ms	20	20	
Coding type	CC 1/3	CC 1/3	
CRC, bit	12	N/A	
Max number of bits/TTI after channel coding	243	285	
Max number of bits/radio frame before rate	122	143	
matching			
RM attribute	180-220	170-210	
NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).			

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.7.1.1.3 TFCS

TFCS size	6	
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=	
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),	
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.7.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

6.10.3.4.1.7.2 Downlink

6.10.3.4.1.7.2.1 Transport channel parameters

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

Higher Layer	RAB/Sign	alling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	CH	
	RLC mode		TM	TM	
	Payload s	izes, bit	39, 61 (alt. 0, 39, 61)	87	
	Max data rate, bps		740	7400	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0	0	
	MAC multiplexing		N/A	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	
	(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	

Ī	Max number of bits/TTI after channel coding	243	285	
Max number of bits/radio frame before rate		122	143	
matching				
RM attribute		180-220	170-210	
). NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is				

no data on RAB #1 (see clause 4.2.1.1 in TS25.222).

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.7.2.1.3 TFCS

TFCS size	6	
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=	
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),	
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)	
Note: in case TB size zero is configured for any transport channel, the first TFC is required; optional otherwise		

6.10.3.4.1.7.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.48

6.10.3.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.7a.1 Uplink

6.10.3.4.1.7a.1.1 Transport channel parameters

6.10.3.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

Higher layer	RAB/Sigi	nalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	DTCH	
	RLC mod	de	TM	TM	
	Payload	sizes, bit	39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87	
	Max data rate, bps		740	7400	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0	0	
	MAC multiplexing		N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, bit		39, 42, 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 t	уре	CC 1/3	CC 1/3
CRC, bit		12	N/A
Max nun	nber of bits/TTI after channel coding	243	285
Max nun matching	nber of bits/radio frame before rate	122	143
RM attrib	oute	180-220	170-210
NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).			

6.10.3.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

6.10.3.4.1.7a.1.1.3 TFCS

TFCS size	12	
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=	
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5,	
	TF4, TF0),	
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5,	
	TF4, TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.7a.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

6.10.3.4.1.7a.2 Downlink

6.10.3.4.1.7a.2.1 Transport channel parameters

6.10.3.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

Higher layer	RAB/Sig	nalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	Н	
	RLC mo	de	TM	TM	
	Payload sizes, bit		39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87	
	Max data	a rate, bps	740	7400	
	TrD PDU header, bit		0	0	
MAC	MAC hea	ader, bit	0		
	MAC multiplexing		N/A	1	
Layer 1	TrCH typ	oe .	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
Max number of bits/radio frame before rate matching	122	143
RM attribute	180-220	170-210

6.10.3.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.7a.2.1.3 TFCS

TFCS size	12	
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=	
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF3, TF2, TF0), (TF4, TF3, TF0), (TF5,	
	TF4, TF0),	
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1), (TF3, TF2, TF1), (TF4, TF3, TF1), (TF5,	
	TF4, TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.7a.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.48

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

6.10.3.4.1.8.1 Uplink

6.10.3.4.1.8.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTC	CH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	Max data rate, bps	670	6700	
	TrD PDU header, bit	0	0	
MAC	MAC header, bit	0		
	MAC multiplexing	N/A	N/A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	TFS TF0, bits	0x58 (alt. 1x0) (note)	0x76	
	TF1, bits	1x39	1x76	

TF2, bits	1x58	N/A	
TTI, ms	20	20	
Coding type	CC 1/3	CC 1/3	
CRC, bit	12	N/A	
Max number of bits/TTI after channel coding	234	252	
Max number of bits/radio frame before rate	117	126	
matching			
RM attribute	180-220	170-210	
NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number			
of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).			

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.8.1.1.3 TFCS

TFCS size	6	
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=	
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),	
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.8.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52

6.10.3.4.1.8.2 Downlink

6.10.3.4.1.8.2.1 Transport channel parameters

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

Higher Layer	RAB/Sign	alling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	H	
	RLC mod	e	TM	TM	
	Payload s	sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	Max data	rate, bps	670	6700	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0	0	
	MAC multiplexing		N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, bit		39, 58 (alt. 0,39,58)	76	
	TFS	TF0, bits	0x58 (alt.1x0) (note)	0x76	
	(note 1)	TF1, bits	1x39	1x76	
		TF2, bits	1x58	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

Max number of bits/TTI after channel coding	234	252
Max number of bits/radio frame before rate matching	117	126
RM attribute	180-220	170-210
).		

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.8.2.1.3 **TFCS**

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.8.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.52

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

Uplink

6.10.3.4.1.9.1

6.10.3.4.1.9.1.1 Transport channel parameters

Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB 6.10.3.4.1.9.1.1.1

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTC	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	0	
	MAC multiplexing	N/	N/A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 55 (alt. 0, 39, 55)	63	
	TFS TF0, bits	0x55 (alt. 1x0) (note)	0x63	
	TF1, bits	1x39	1x63	
	TF2, bits	1x55	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	

Max number of bits/TTI after channel coding	225	213	
Max number of bits/radio frame before rate	113	107	
matching			
RM attribute	180-220	170-210	
NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222)			

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.9.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.9.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.56

6.10.3.4.1.9.2 Downlink

6.10.3.4.1.9.2.1 Transport channel parameters

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

Higher Layer	RAB/Sign	alling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	:H	
	RLC mode		TM	TM	
	Payload s	izes, bit	39, 55 (alt. 0, 39, 55)	63	
	Max data	rate, bps	590	5900	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0	0	
	MAC multiplexing		N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, bit		39, 55 (alt. 0, 39, 55)	63	
	TFS	TF0, bits	0x55 (alt. 1x0) (note)	0x63	
	(note 1)	TF1, bits	1x39	1x63	
		TF2, bits	1x55	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

	Max number of bits/TTI after channel coding	225	213
	Max number of bits/radio frame before rate	113	107
	matching		
	RM attribute	180-220	170-210
NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is			

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.9.2.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.9.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.56

6.10.3.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.10.1 Uplink

6.10.3.4.1.10.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2		
RLC	Logical channel type	DTO	CH		
	RLC mode	TM	TM		
	Payload sizes, bit	39, 49 (alt. 0, 39, 49)	54		
	Max data rate, bps	515	5150		
	TrD PDU header, bit	0	0		
MAC	MAC header, bit	0			
	MAC multiplexing	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		

1x49	N/A
20	20
CC 1/3	CC 1/3
12	N/A
207	186
104	93
180-220	170-210
	20 CC 1/3 12 207 104

NOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).

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

See clause 6.10.3.4.1.1.1.1.

6.10.3.4.1.10.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case TE	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.10.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72

6.10.3.4.1.10.2 Downlink

6.10.3.4.1.10.2.1 Transport channel parameters

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

Higher	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	
Layer					
RLC	Logical ch	annel type	DTO	CH	
	RLC mode	9	TM	TM	
	Payload si	izes, bit	39, 49 (alt. 0, 39, 49)	54	
	Max data	rate, bps	515	50	
	TrD PDU I	neader, bit	0		
MAC	MAC header, bit		0	0	
	MAC multiplexing		N/.	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, I	bit	39, 49 (alt. 0, 39, 49)	54	
	TFS	TF0, bits	0x49 (alt. 1x0) (note)	0x54	
	(note 1)	TF1, bits	1x39	1x54	
		TF2, bits	1x49	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit	·	12	N/A	

1	Max number of bits/TTI after channel coding	207	186
Max number of bits/radio frame before rate		104	93
matching			
RM attribute		180-220	170-210
NOTE:	NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is		
	no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).		

6.10.3.4.1.10.2.1.2 Transport channel parameters for DL: 1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.10.3.4.1.10.2.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.10.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
Max. Number of data bits/radio frame		228 bits
	TFCI code word	16 bits
	Puncturing limit	0.72

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

6.10.3.4.1.11.1 Uplink

6.10.3.4.1.11.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB		RAB/Signalling RB RAB subflow #1		
RLC	Logical channel type		DTC	CH	
	RLC mod	de	TM	TM	
	Payload	sizes, bit	39, 42 (alt. 0, 39, 42)	53	
	Max data	rate, bps	475	4750	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0		
	MAC multiplexing		N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes	, bit	39, 42 (alt. 0, 39, 42)	53	
	TFS	TF0, bits	0x42 (alt. 1x0) (note)	0x53	
		TF1, bits	1x39	1x53	
		TF2, bits	1x42	N/A	
	TTI, ms		20	20	
	Coding ty	/pe	CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

	Max number of bits/TTI after channel coding	186	183
Max number of bits/radio frame before rate		93	92
matching			
RM attribute		180-220	170-210
NOTE:	OTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number		
	of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).		

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

See clause 6.10.3.4.1.1.1.1.

6.10.3.4.1.11.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.11.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76

6.10.3.4.1.11.2 Downlink

6.10.3.4.1.11.2.1 Transport channel parameters

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

Higher Layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	H	
	RLC mode	,	TM	TM	
	Payload siz	zes, bit	39, 42 (alt. 0, 39, 42)	53	
	Max data r	ate, bps	475	50	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type		DCH	DCH	
-	TB sizes, b	oit	39, 42 (alt. 0, 39, 42)	53	
	TFS	TF0, bits	0X42 (alt.1x0)(note)	0x53	
	(note 1)	TF1, bits	1x39	1x53	
		TF2, bits	1x42	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

	Max number of bits/TTI after channel coding	186	183
	Max number of bits/radio frame before rate	93	92
	matching		
	RM attribute	180-220	170-210
NOTE:	OTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is		

no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).

6.10.3.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.10.3.4.1.11.2.1.3 TFCS

TFCS size	6	
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=	
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),	
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.11.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.76

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

6.10.3.4.1.12.1 Uplink

6.10.3.4.1.12.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Max number of bits/radio frame before rate matching	891
	RM attribute	160-200

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.12.1.1.3 TFCS

TFCS size	4	
TFCS	(28.8 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.12.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
Puncturing Limit		0.76
Note: In case the first TFC in a TFCS is not configured, the TFCI code word will be 8		
bits		

6.10.3.4.1.12.2 Downlink

6.10.3.4.1.12.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	TM	
	Payload sizes, bit	576	
	Max data rate, bps	28800	
	TrD PDU header, bit	0	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	576	
	TFS TF0, bits	0x576	
	TF1, bits	1x576	
	TTI, ms	20	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	3564	
	Max number of bits/radio frame before rate matching	891	
	RM attribute	160-200	

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.12.2.1.3 TFCS

TFCS size	4	
TFCS	(28.8 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.12.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.40
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8		
bits		

6.10.3.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.13.1 Uplink

6.10.3.4.1.13.1.1 Transport channel parameters

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

Higher	RAB/Signalling RB		RAB
Layer			
RLC	Logical channel type		DTCH
	RLC mode		TM
	Payload sizes, bit		640
	Max data rate, b	ps	64000
	TrD PDU heade	r, bit	0
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		640
	TFS	TF0, bits	0x640
		TF1, bits	2x640
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of I	oits/TTI after channel coding	3948
	Max number of bits/radio frame before rate		1974
	matching		
	RM attribute		150-195

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.13.1.1.3 TFCS

TFCS size	4
TFCS	(64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.13.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips	
	Codes and time slots	SF16 x 1 code x 1 time slot + SF4 x 1 code x	
		1 time slot	
	Max. Number of data bits/radio frame	1148 bits	
	TFCI code word	16 bits	
	TPC	2 bits	
	Puncturing Limit	0.48	
Note: In case th	Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.		

6.10.3.4.1.13.2 Downlink

6.10.3.4.1.13.2.1 Transport channel parameters

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

Higher	RAB/Signalling RB		RAB
Layer			
RLC	Logical channel	type	DTCH
	RLC mode		TM
	Payload sizes, b	it	640
	Max data rate, b	ps	64000
	TrD PDU header	r, bit	0
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		640
	TFS	TF0, bits	0x640
		TF1, bits	2x640
	TTI, ms	·	20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		3948
	Max number of bits/radio frame before rate		1974
	matching		
	RM attribute		150-195

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.13.2.1.3 TFCS

TFCS size	4	
TFCS	(64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.13.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing limit	0.52
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8		
bits		

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

6.10.3.4.1.14.1 Uplink

6.10.3.4.1.14.1.1 Transport channel parameters

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

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

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.14.1.1.3 TFCS

TFCS size	4
TFCS	(32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB s	ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.14.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.68
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be		
8 bits		

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 Layer	RAB/Sig	nalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		TM
	Payload	sizes, bit	640
	Max dat	a rate, bps	32000
	TrD PDI	J header, bit	0
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
-	TB sizes, bit		640
	TFS	TF0, bits	0x640
		TF1, bits	1x640
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		1980
	Max number of bits/radio frame before rate		990
	matching		
	RM attribute		165-210

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.14.2.1.3 TFCS

TFCS size	4	
TFCS	(32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.14.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 3 codes x 1 time slot
	Max. Number of data bits/radio frame	716 bits
	TFCI code word	16 bits
	Puncturing limit	0.52
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8		
bits		

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

6.10.3.4.1.15.1 Uplink

6.10.3.4.1.15.1.1 Transport channel parameters

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

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

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.15.1.1.3 TFCS

TFCS size	4
TFCS	(14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.15.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits		

6.10.3.4.1.15.2 Downlink

6.10.3.4.1.15.2.1 Transport channel parameters

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

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

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.15.2.1.3 TFCS

TFCS size	4	
TFCS	(14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.15.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.80
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8		
bits		

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

for DCCH

6.10.3.4.1.16.1 Uplink

6.10.3.4.1.16.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Max number of bits/radio frame before rate	891
	matching	
	RM attribute	135-175

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.16.1.1.3 TFCS

TFCS size	4
TFCS	(28.8kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.16.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be		
8 bits		

6.10.3.4.1.16.2 Downlink

6.10.3.4.1.16.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Max number of bits/radio frame before rate matching	891
	RM attribute	135-175

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.16.2.1.3 TFCS

TFCS size	4
TFCS	(28.8kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB siz	re zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.16.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.44
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8		
bits		

6.10.3.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.17.1 Uplink

6.10.3.4.1.17.1.1 Transport channel parameters

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

Higher	RAB/Signalling RB	RAB
Layer	I acidal abancal trus	DTOLL
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

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.17.1.1.3 TFCS

TFCS size	10	
TFCS	(57.6 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),	
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.17.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44

6.10.3.4.1.17.2 Downlink

6.10.3.4.1.17.2.1 Transport channel parameters

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

Higher Layer	RAB/Signa	lling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		TM
	Payload siz	zes, bit	576
	Max data ra	ate, bps	57600
	TrD PDU h	eader, bit	0
MAC	MAC heade	er, bit	0
	MAC 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 attribut	e	125-165

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.17.2.1.3 TFCS

TFCS size	10	
TFCS	(57.6 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),	
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.17.2.2 Physical channel parameters

DPCH Downlink

Uplink

Transport channel parameters

6.10.3.4.1.23.1

6.10.3.4.1.23.1.1

Midamble

512 chips

		Codes and time slots	SF16 x 4 codes x 1 time slot	
		Max. Number of data bits/radio frame	960 bits	
		TFCI code word	16 bits	
		Puncturing limit	0.48	
6.10.3.4.1.18	Void			
6.10.3.4.1.19	Void			
6.10.3.4.1.20	Void			
6.10.3.4.1.21	Void			
6.10.3.4.1.22	Void			
6.10.3.4.1.23	Interacti DCCH	ve or background / UL:32 DL:8 kbps	/ PS RAB + UL:3.4 DL:3.4 kb	ps SRBs for

6.10.3.4.1.23.1.1.1 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	de	AM
	Payload	sizes, bit	320 (alt. 128)
	Max data	a rate, bps	32000
	AMD PD	U header, bit	16
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336 (alt.144)
	TFS	TF0, bits	0x336 (alt. 0x144)
		TF1, bits	1x336 (alt. 1x144)
		TF2, bits	2x336 (alt. 5x144)
	TTI, ms		20)
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		2124 (alt. 2412)
	Max number of bits/radio frame before rate		1062 (alt. 1206)
	matching		,
	RM attribute		135-175

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

6.10.3.4.1.23.1.1.3 TFCS

TFCS size	6	
TFCS	(32 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.23.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72 (alt. 0.64)

6.10.3.4.1.23.2 Downlink

6.10.3.4.1.23.2.1 Transport channel parameters

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

Higher Layer	RAB/Sig	nalling RB	RAB
RLC	Logical	channel type	DTCH
	RLC mo	de	AM
	Payload	sizes, bit	320
	Max data	a rate, bps	8000
	AMD PD	OU header, bit	16
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		1068
	Max number of bits/radio frame before rate		267
	matching	g	
	RM attrib	oute	135-175

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23.2.1.3 TFCS

TFCS size	4
TFCS	(8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB s	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.23.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.56
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8		
bits.		

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

6.10.3.4.1.23a.1 Uplink

6.10.3.4.1.23a.1.1 Transport channel parameters

6.10.3.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB

Higher Layer	RAB/Signalling RB		RAB
RLC	RLC Logical channel type		DTCH
	RLC mod	de	AM
	Payload	sizes, bit	320 (alt. 128)
	Max data	a rate, bps	8000
	AMD PD	U header, bit	16
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes	, bit	336 (alt. 144)
	TFS	TF0, bits	0x336 (alt. 0x144)
		TF1, bits	1x336 (alt. 1x144)
		TF2, bits	N/A (alt. 5x144)
	TTI, ms		40 (alt. 80)
	Coding type		TC
	CRC, bit		16
	Max num	ber of bits/TTI after channel coding	1068 (alt. 2412)
	Max num matching	ber of bits/radio frame before rate	267 (alt.302)
	RM attrib	oute	135-175

6.10.3.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23a.1.1.3 TFCS

TFCS size	4 (alt. 6)	
TFCS	(8 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)	
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1))	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.23a.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.56 (alt. 0.48)

6.10.3.4.1.23a.2 Downlink

See clause 6.10.3.4.1.23.2

6.10.3.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.23b.1 Uplink

6.10.3.4.1.23b.1.1 Transport channel parameters

6.10.3.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320 (alt. 128)
	Max data rate, bps	16000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
-	TB sizes, bit	336 (alt. 144)
	TFS TF0, bits	0x336 (alt. 0x144)
	TF1, bits	1x336 (alt. 1x144)
	TF2, bits	2x336 (alt. 5x144)
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	2124 (alt. 2412)
	Max number of bits/radio frame before rate	531 (alt. 603)
	matching	
	RM attribute	135-175

6.10.3.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23b.1.1.3 TFCS

TFCS size	6	
TFCS	(16 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.23b.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.68 (alt. 0.60)

6.10.3.4.1.23b.2 Downlink

6.10.3.4.1.23b.2.1 Transport channel parameters

6.10.3.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	16000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	2124
	Max number of bits/radio frame before rate matching	531
	RM attribute	135-175

6.10.3.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23b.2.1.3 TFCS

TFCS size	6
TFCS	(16 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)
Note: In case TB si	ze zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.2.4.1.23b.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

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

for DCCH

6.10.3.4.1.23c.1 Uplink

6.10.3.4.1.23c.1.1 Transport channel parameters

6.10.3.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mo	de	AM
	Payload	sizes, bit	320 (alt. 128)
	Max data	a rate, bps	32000
	AMD PD	U header, bit	16
MAC	MAC hea	ader, bit	0
	MAC mu	ıltiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336 (alt. 144)
	TFS	TF0, bits	0x336 (alt. 0x144)
		TF1, bits	1x336 (alt. 1x144)
		TF2, bits	2x336 (alt. 5x144)
		TF3, bits	3x336 (alt. 7x144)
		TF4, bits	4x336 (alt. 10x144)
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		4236 (alt. 4812)
	Max number of bits/radio frame before rate matching		1059 (alt. 1203)
	RM attribute		135-175

6.10.3.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23c.1.1.3 TFCS

TFCS size	10	
TFCS	(32 kbps RAB, DCCH)=	
	(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1),	
	(TF3,TF1), (TF4,TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.23c.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72 (alt. 0.64)

6.10.3.4.1.23c.2 Downlink

6.10.3.4.1.23c.2.1 Transport channel parameters

6.10.3.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

Higher layer	RAB/Sigi	nalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mod	de	AM
	Payload	sizes, bit	320
	Max data	rate, bps	32000
	AMD PD	U header, bit	16
MAC	MAC hea	ader, bit	0
	MAC mu	Itiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		4236
	Max number of bits/radio frame before rate matching		1059
	RM attribute		135-175

6.10.3.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23c.2.1.3 TFCS

TFCS size	10	
TFCS	(32 kbps RAB, DCCH)=	
	(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1),	
	(TF3,TF1), (TF4,TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.23c.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 3 codes x 1 time slot
	Max. Number of data bits/radio frame	716
	TFCI code word	16 bits
	Puncturing limit	0.60

6.10.3.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4

kbps SRBs for DCCH

6.10.3.4.1.23d.1 Uplink

6.10.3.4.1.23d.1.1 Transport channel parameters

6.10.3.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

Higher layer	RAB/Sig	nalling RB	RAB	
RLC	Logical of	channel type	DTCH	
	RLC mo	de	AM	
	Payload	sizes, bit	320 (alt. 128)	
	Max data	a rate, bps	32000	
	AMD PD	U header, bit	16	
MAC	MAC hea	ader, bit	0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	
	TB sizes	, bit	336 (alt. 144)	
	TFS	TF0, bits	0x336 (alt. 0x144)	
		TF1, bits	1x336 (alt 1x144)	
		TF2, bits	2x336 (alt. 5x144)	
	TTI, ms		20	
	Coding t	ype	TC	
	CRC, bit		16	
	Max nun	nber of bits/TTI after channel coding	2124 (alt. 2412)	
	Max nun matching	nber of bits/radio frame before rate	1062 (alt. 1206)	
	RM attrib	oute	135-175	

6.10.3.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.23d.1.1.3 TFCS

TFCS size	6
TFCS	(32 kbps RAB, DCCH)=
	(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.23d.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips	
	Codes and time slots	SF4 x 1 code x 1 time slot	
	Max. Number of data bits/radio frame	904 bits	
	TFCI code word	16 bits	
TPC		2 bits	
	Puncturing Limit	0.72 (alt. 0.64)	

6.10.3.4.1.23d.2 Downlink

6.10.3.4.1.23d.2.1 Transport channel parameters

6.10.3.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

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

6.10.3.4.1.23d.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.23d.2.1.3 TFCS

TFCS size	6	
TFCS	(32 kbps RAB, DCCH)=	
	(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.23d.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 3 codes x 1 time slot
	Max. Number of data bits/radio frame	716 bits
	TFCI code word	16 bits
	Puncturing limit	0.56

6.10.3.4.1.24 Void

6.10.3.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.25.1 Uplink

See clause 6.10.3.4.1.23.1.

6.10.3.4.1.25.2 Downlink

6.10.3.4.1.25.2.1 Transport channel parameters

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

Higher 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)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.25.2.2 Physical channel parameters

DPCH Downlink		Physical Configuration 1	Physical Configuration 2
	Midamble	512 chips	512 chips
	Codes and time slots	SF16 x 3 codes x 1 time slot	SF16 x 9 codes x 1 time slot
		+ SF16 x 2 codes x 1 time	
		slot	
	Max. Number of data bits/radio frame	1204 bits	2180 bits
	TFCI code word	16 bits	16 bits
	Puncturing limit	0.52	0.96

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

for DCCH

6.10.3.4.1.26.1 Uplink

6.10.3.4.1.26.1.1 Transport channel parameters

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

Higher Layer	RAB/Sign	alling RB	RAB	
RLC	Logical channel type		DTCH	
	RLC mod	e	AM	
	Payload s	sizes, bit	320 (alt.128)	
	Max data	rate, bps	64000	
	AMD PDU	J header, bit	16	
MAC	MAC head	der, bit	0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	
	TB sizes, bit		336 (alt. 144)	
	TFS	TF0, bits	0x336 (alt. 0x144)	
		TF1, bits	1x336 (alt. 1x144)	
		TF2, bits	2x336 (alt. 3x144)	
		TF3, bits	3x336 (alt. 7x144)	
		TF4, bits	4x336 (alt. 10x144)	
	TTI, ms		20	
	Coding type		TC	
	CRC, bit		16	
	Max number of bits/TTI after channel coding		4236 (alt. 4812)	
	Max number of bits/radio frame before rate matching		2118 (alt. 2406)	
	RM attribute		130-170	

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.26.1.1.3 TFCS

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

6.10.3.4.1.26.1.2 Physical channel parameters

DPCH Uplink		Physical Configuration 1	Physical Configuration 2
	Midamble	512 chips	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot +	SF2 x 1 code x 1 time slot + SF4
		SF4 x 1 code x 1 time slot	x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1148 bits	2784 bits
	TFCI code word	16 bits	16 bits
	TPC	2 bits	2 bits
	Puncturing Limit	0.48 (alt. 0.44)	1

6.10.3.4.1.26.2 Downlink

See clause 6.10.3.4.1.25.2.

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

for DCCH

6.10.3.4.1.27.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.27.2 Downlink

6.10.3.4.1.27.2.1 Transport channel parameters

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

Higher Layer	RAB/Sig	nalling 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)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.27.2.2 Physical channel parameters

DPCH Downlink		Physical Configuration 1	Physical Configuration 2
	Midamble	256 chips	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot	SF16 x 4 codes x 2 time slots
			+ SF16 x 3 codes x 2 time
			slots
	Max. Number of data bits/radio frame	2192 bits	3848 bits
	TFCI code word	16 bits	16 bits
	Puncturing limit	0.48	0.84

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

6.10.3.4.1.28.1 Uplink

6.10.3.4.1.28.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320 (alt. 128)	
	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 (alt. 144)	
	TFS TF0, bits	0x336 (alt. 0x144)	
	TF1, bits	1x336 (alt. 1x144)	
	TF2, bits	2x336 (alt. 7x144)	
	TF3, bits	4 x336 (alt 14x144)	
	TF4, bits	8 x336 (alt. 20x144)	
	TTI, ms	20	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	8460 (alt. 9612)	
	Max number of bits/radio frame before rate matching	4230 (alt. 4806)	
	RM attribute	120-160	

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.28.1.1.3 TFCS

TFCS size	9 (alt.10)
TFCS	(128 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1)
	(alt, (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1))
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.28.1.2 Physical channel parameters

DPCH Uplink		Physical Configuration 1	Physical Configuration 2
	Midamble	256 chips	256 chips
	Codes and time slots	SF2 x 1 code x 1 timeslot	SF2 x 1 code x 2 timeslots + SF4
			x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits	5376 bits
	TFCI code word	16 bits	16 bits
	TPC	2 bits	2 bits
	Puncturing Limit	0.44 (alt. 0.40)	1

6.10.3.4.1.28.2 Downlink

See clause 6.10.3.4.1.27.2.

6.10.3.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.3.4.1.29.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.29.2 Downlink

6.10.3.4.1.29.2.1 Transport channel parameters

6.10.3.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

Higher Layer	RAB/Signa	Illing 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 matching		4758	
	RM attribute		140-180	

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.29.2.1.3 TFCS

TFCS size	12
TFCS	(144 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.29.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 9 codes x 1 time slot
	Max. Number of data bits/radio frame	2468 bits
	TFCI code word	16 bits
	Puncturing limit	0.48

6.10.3.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.30.1 Uplink

6.10.3.4.1.30.1.1 Transport channel parameters

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

Higher Layer	RAB/Sigr	nalling RB	RAB
RLC	Logical c	hannel type	DTCH
	RLC mode		AM
	Payload:	sizes, bit	320 (alt. 128)
	Max data	a rate, bps	144000
	AMD PD	U header, bit	16
MAC	MAC hea	ader, bit	0
	MAC mul	Itiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336 (alt. 144)
	TFS	TF0, bits	0x336 (alt. 0x144)
		TF1, bits	1x336 (alt. 1x144)
		TF2, bits	2x336 (alt. 10x144)
		TF3, bits	4 x336 (alt. 20x144)
		TF4, bits	8 x336 (alt. 30x144)
		TF5, bits	9 x336 (alt. 45x144)
	TTI, ms		20 (alt. 40)
	Coding ty	уре	TC
	CRC, bit		16
	Max num	ber of bits/TTI after channel coding	9516 (alt. 21624)
	Max num	ber of bits/radio frame before rate	4758 (alt. 5406)
Ì	matching		
	RM attrib	oute	140-180

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.30.1.1.3 TFCS

TFCS size	12
TFCS	(144 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.30.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF16 x 1 code x 1 time slot + SF2 x 1 codex
		1 time slot
	Max. Number of data bits/radio frame	2340 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44(alt. 0.40)

6.10.3.4.1.30.2 Downlink

See clause 6.10.3.4.1.29.2.

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

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.31.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.31.2 Downlink

6.10.3.4.1.31.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	N/A (alt. 12x336)
	TF6, bits	N/A (alt. 16x336)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	8460(alt. 16920)
	Max number of bits/radio frame before rate matching	8460 (alt. 8460)

Higher Layer	RAB/Signalling RB	RAB
	RM attribute	135-175

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.31.2.1.3 **TFCS**

TFCS size	10 (alt.14)	
TFCS	(256 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),	
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)	
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)	
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1))	
Note: In case T	Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.31.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	4400 bits
	TFCI code word	16 bits
	Puncturing limit	0.48

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

Uplink 6.10.3.4.1.32.1

See 6.10.3.4.1.26.1

6.10.3.4.1.32.2 Downlink

6.10.3.4.1.32.2.1 Transport channel parameters

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

Higher 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 of	coding 12684(alt. 25368)
	Max number of bits/radio frame before	rate 12684 (alt. 12684)
	matching	, ,
	RM attribute	110-150

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.32.2.1.3 TFCS

TFCS size	12 (alt.18)
TFCS	(384 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1))
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.32.2.2 Physical channel parameters

DPCH Downlink		Physical Configuration 1	Physical Configuration 2
	Midamble	256 chips	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time	SF16 x 6 codes x 4 time slots +
		slots	SF16 x 4 codes x 1 time slot
			(alt. SF1 x 1 code x 3 time
			slots)
	Max. Number of data	6608 bits	7712 bits (alt. 13232 bits)
	bits/radio frame		
	TFCI code word	16 bits	16 bits
	Puncturing Limit	0.48	0.60 (alt. 1)

6.10.3.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.33.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.1.33.2 Downlink

See clause 6.10.3.4.1.32.2.

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

6.10.3.4.1.34.1 Uplink

6.10.3.4.1.34.1.1 Transport channel parameters

6.10.3.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

Higher 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. 16x336)
	TF7, bits	N/A (alt. 20x336)
	TF8, bits	N/A (alt. 24 x336)
	TTI, ms	10 (alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	12684 (alt. 25368)
	Max number of bits/radio frame before rate	12684
	matching	
	RM attribute	110-150

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.34.1.1.3 TFCS

TFCS size	12 (alt.18)	
TFCS	(384 kbps RAB, DCCH)= (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1) (alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1), (TF8, TF1))	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.34.1.2 Physical channel parameters

DPCH Uplink		Physical	Physical Configuration 2
		Configuration 1	
	Midamble	256 chips	256 chips
	Codes and time slots	SF2 x 1 code x 3	SF2 x 1 code x 5 timeslots +
		time slots	SF4 x 1 code x 2 timeslots
			(alt. {SF2 x 1 code + SF4 x 1
			code} x 4 timeslots)
	Max. Number of data	6480 bits	13104 bits
	bits/radio frame		
	TFCI code word	16 bits	16 bits
	TPC	2 bits	2 bits
	Puncturing Limit	0.48	1

6.10.3.4.1.34.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

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6.10.3.4.1.35.1 Uplink

6.10.3.4.1.35.1.1 Transport channel parameters

See clause 6.10.3.4.1.26.1.1

6.10.3.4.1.35.1.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.88 (alt. 0.80)

6.10.3.4.1.35.2 Downlink

6.10.3.4.1.35.2.1 Transport channel parameters

6.10.3.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	640
	Max data rate, bps	2048000
AMD PDU header, bit		16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	656
	TFS TF0, bits	0x656
	TF1, bits	1x656
	TF2, bits	2x656
	TF3, bits	4 x656

Higher Layer	RAB/Signalling RB	RAB
	TF4, bits	8 x656
	TF5, bits	12x656
	TF6, bits	16x656
	TF7, bits	20x656
	TF8, bits	24x656
	TF9, bits	28x656
	TF10, bits	31x656 (alt. 32x656)
	TF11, bits	N/A (alt. 36x656)
	TF12, bits	N/A (alt. 40x656)
	TF13, bits	N/A (alt. 44x656)
	TF14, bits	N/A (alt. 48x656)
	TF15, bits	N/A (alt. 52x656)
	TF16, bits	N/A (alt. 56x656)
	TF17, bits	N/A (alt. 60x656)
	TF18, bits	N/A (alt. 64x656)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	62565(alt. 129141)
	Max number of bits/radio frame before rate matching	62565(alt. 64571)
	RM attribute	130-170

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.35.2.1.3 TFCS

TFCS size	21 (alt.38)
TFCS	(2048 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF8, TF0), (TF9, TF0), (TF10, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1)
	(alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),
	(TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15,
	TF1), (TF16, TF1), (TF17, TF1(TF18, TF1))
Note: In case TB s	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.35.2.2 Physical channel parameters

DPCH Downlink		Physical Configuration 1	Physical Configuration 2
	Midamble	256 chips	256 chips
	Codes and time slots	SF1 x 1 code x 11 time slots	SF16 x 13 codes x 4 time slots +
			SF16 x 12 codes x 7 time slot
	Max. Number of data bits/radio frame	48560 bits (alt. 48544)	37520 bits (alt. 37504)
	TFCI code word	16 bits (alt. 32 bits)	16 bits (alt. 32 bits)
	Puncturing limit	0.76 (alt.0.72)	0.56

6.10.3.4.1.36	Void	
6.10.3.4.1.37	Void	
6.10.3.4.1.38	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + 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
	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps 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, 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, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF2, TF1), (TF1, TF1, TF1, TF2, TF1)
Note: In case TB siz	e zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.38.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52 (alt. 0.48)

6.10.3.4.1.38.2 Downlink

6.10.3.4.1.38.2.1 Transport channel parameters

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

6.10.3.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.

6.10.3.4.1.38.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)
Note: In case TB s	ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.38.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.52

6.10.3.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38a.1 Uplink

6.10.3.4.1.38a.1.1 Transport channel parameters

6.10.3.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

Higher	RAB/Signalling RB	RAB
Layer RLC	Logical channel type	DTCH
0	RLC mode	AM
	Payload sizes, bit	320 (alt. 128)
	Max data rate, bps	0
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS TF0, bits	0x336 (alt 0x144)
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	0
	Max number of bits/radio frame before rate matching	0
	RM attribute	130-170

6.10.3.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38a.1.1.4 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)
Note: In case TB si	ze zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38a.1.2 Physical channel parameters.

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.68

6.10.3.4.1.38a.2 Downlink

6.10.3.4.1.38a.2.1 Transport channel parameters

6.10.3.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	0
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
-	TB sizes, bit	336
	TFS TF0, bits	0x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	0
	Max number of bits/radio frame before rate matching	0
	RM attribute	130-170

6.10.3.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38a.2.1.4 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)
Note: In case TB si	ze zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38a.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.1.38b Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38b.1 Uplink

6.10.3.4.1.38b.1.1 Transport channel parameters

6.10.3.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38b.1.1.4 TFCS

TFCS size	12 (alt. 17)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)
	(alt.
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1))
Note: In case TE	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38b.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48 (alt. 0.56)

6.10.3.4.1.38b.2 Downlink

6.10.3.4.1.38b.2.1 Transport channel parameters

6.10.3.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38b.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1)
Note: In case TB:	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38b.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.52

6.10.3.4.1.38c Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38c.1 Uplink

6.10.3.4.1.38c.1.1 Transport channel parameters

6.10.3.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.10.3.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38c.1.1.4 TFCS

TFCS size	18 (alt. 17)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF1,TF2,TF1)
	(alt.
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1))
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38c.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52 (alt. 0.52)

6.10.3.4.1.38c.2 Downlink

6.10.3.4.1.38c.2.1 Transport channel parameters

6.10.3.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.10.3.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38c.2.1.4 TFCS

TFCS size	18
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,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)
Note: In case TB	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38c.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 4 codes x 1 time slot
	Max. Number of data bits/radio frame	960
	TFCI code word	16 bits
	Puncturing limit	0.56

6.10.3.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38d.1 Uplink

6.10.3.4.1.38d.1.1 Transport channel parameters

6.10.3.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

Higher Layer	RAB/Sig	nalling RB	RAB	RAB
RLC	Logical channel type		DTCH	DTCH
	RLC mod	de	AM	AM
	Payload	sizes, bit	320 (alt. 128)	320 (alt. 128)
	Max data	a rate, bps	64000	64000
	AMD PD	U header, bit	16	16
MAC	MAC hea	ader, bit	4	4
	MAC mu	Itiplexing	2 logical chann	nel multiplexing
Layer 1	TrCH typ	e	DC	CH
	TB sizes	, bit	340 (al	t. 148)
	TFS	TF0, bits	0x340 (a	lt 0x148)
		TF1, bits	1x340 (a	lt 1x148)
		TF2, bits	2x340 (a	lt 3x148)
		TF3, bits	3x340 (a	lt 7x148)
		TF4, bits	4x340 (al	t 10x148)
	TTI, ms		20	
	Coding to	ype	TC	
	CRC, bit		16	
	Max num	nber of bits/TTI after channel coding		
		Max number of bits/radio frame before rate 2142 (alt. 2466)		lt. 2466)
	matching			
	RM attrib	oute	130-	-170

6.10.3.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38d.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)
Note: In case TB s	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38d.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.72 (alt. 0.64)

6.10.3.4.1.38d.2 Downlink

6.10.3.4.1.38d.2.1 Transport channel parameters

6.10.3.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

Higher Layer	RAB/Sig	nalling RB	RAB	RAB
RLC	Logical channel type		DTCH	DTCH
	RLC mo		AM	AM
	Payload	sizes, bit	320	320
	Max data	a rate, bps	64000	64000
	AMD PD	U header, bit	16	16
MAC	MAC hea	ader, bit	4	4
	MAC mu	Iltiplexing	2 logical chanr	nel multiplexing
Layer 1	TrCH typ	oe e	DCH	
	TB sizes	, bit	340	
	TFS	TF0, bits	0x3	340
		TF1, bits	1x3	340
		TF2, bits	2x3	340
		TF3, bits	3x3	340
		TF4, bits	4x340	
	TTI, ms		20	
	Coding type		Т	C
	CRC, bit		16	
	Max nun	nber of bits/TTI after channel coding	4284	
	Max number of bits/radio frame before rate matching		21	42
	RM attrib	oute	130	-170

6.10.3.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38d.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)
Note: In case TB	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38d.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 7 codes x 1 time slot
	Max. Number of data bits/radio frame	1916 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.1.38e Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps /

CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.3.4.1.38e.1 Uplink

6.10.3.4.1.38e.1.1 Transport channel parameters

6.10.3.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75)

kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.10.3.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38e.1.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0), (TF4,TF3,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,TF1), (TF5,TF4,TF1,TF0,TF1)
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38e.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.68

6.10.3.4.1.38e.2 Downlink

6.10.3.4.1.38e.2.1 Transport channel parameters

6.10.3.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB See clause 6.10.3.4.1.38a.2.1.2

6.10.3.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38e.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.	

6.10.3.4.1.38e.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.1.38f
Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.38f.1
Uplink
6.10.3.4.1.38f.1.1
Transport channel parameters
6.10.3.4.1.38f.1.1.1
Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38f.1.1.4 TFCS

TFCS size	24 (alt. 32)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)
	(alt.
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0, TF0, TF2, TF1))
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38f.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48 (alt.0.56)

6.10.3.4.1.38f.2 Downlink

6.10.3.4.1.38f.2.1 Transport channel parameters

6.10.3.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38f.2.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38f.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.52

Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or

background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38g.1 Uplink

6.10.3.4.1.38g.1.1 Transport channel parameters

6.10.3.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38g

6.10.3.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.10.3.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38g.1.1.4 TFCS

TFCS size	32 (alt. 31)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),
	(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),
	(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),
	(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),
	(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),
	(TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)
	(alt.
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),
	(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0),
	(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),
	(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),
	(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),
	(TF4,TF3,TF0,TF2,TF1))
Note 1: In case TE	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

Note 1: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise Note 2: The alt. TFCS is used when the 16Kbps RAB alt. is used.

6.10.3.4.1.38g.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot +
		SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	664 bits (alt. 696 bits)
	TFCI code word	32 bits (alt. 16 bits)
	TPC	2 bits
	Puncturing Limit	0.56 (alt. 0.60)

6.10.3.4.1.38g.2 Downlink

6.10.3.4.1.38g.2.1 Transport channel parameters

6.10.3.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.2.1.1.

6.10.3.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38g.2.1.4 TFCS

TFCS size	36
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)
Note: In case TB s	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38g.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 3 codes x 1 time slot
	Max. Number of data bits/radio frame	700 bits
	TFCI code word	32 bits
	Puncturing limit	0.56

6.10.3.4.1.38h	Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.38h.1	Uplink
6.10.3.4.1.38h.1.1	Transport channel parameters
6.10.3.4.1.38h.1.1.1	Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

6.10.3.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23d.1.1.1.

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38h.1.1.4 TFCS

TFCS size	32
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1, TF1),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)
Note: In case TB si	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38h.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot +
		SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1084 bits
	TFCI code word	32 bits
	TPC	2 bits
	Puncturing Limit	0.68 (alt.0.60)

6.10.3.4.1.38h.2 Downlink

6.10.3.4.1.38h.2.1 Transport channel parameters

6.10.3.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.10.3.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38h.2.1.4 TFCS

TFCS size	32
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF1,TF0,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1, TF1),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38h.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 4 codes x 1 time slot
	Max. Number of data bits/radio frame	944
	TFCI code word	32 bits
	Puncturing limit	0.60

6.10.3.4.1.38i Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38i.1 Uplink

6.10.3.4.1.38i.1.1 Transport channel parameters

6.10.3.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.10.3.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38i.1.1.4 TFCS

TFCS size	48
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38i.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1936 bits
	TFCI code word	32 bit
	TPC	2 bits
	Puncturing Limit	0.68 (alt.0.60)

6.10.3.4.1.38i.2 Downlink

6.10.3.4.1.38i.2.1 Transport channel parameters

6.10.3.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38i.2.1.4 TFCS

TFCS size	60
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,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,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),
	(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,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)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38i.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 7 codes x 1 time slot
	Max. Number of data bits/radio frame	1900 bits
	TFCI code word	32 bits
	Puncturing limit	0.68

6.10.3.4.1.38j Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38j.1 Uplink

See clause 6.10.3.4.1.38i.1

6.10.3.4.1.38j.2 Downlink

6.10.3.4.1.38j.2.1 Transport channel parameters

6.10.3.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38j.2.1.4 TFCS

TFCS size	60
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),
	(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),
	(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38j.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 6 codes x 2 time slots
	Max. Number of data bits/radio frame	3280 bits
	TFCI code word	32 bits
	Puncturing limit	0.64

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

6.10.3.4.1.39.1 Uplink

See clause 6.10.3.4.1.38.1.

6.10.3.4.1.39.2 Downlink

6.10.3.4.1.39.2.1 Transport channel parameters

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

6.10.3.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.39.2.1.4 TFCS

TFCS size	30	
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=	
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),	
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),	
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),	
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),	
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),	
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),	
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),	
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),	
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),	
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)	
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.39.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	1936 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

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

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.40.1 Uplink

6.10.3.4.1.40.1.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.1.1.1.

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

See clause 6.10.3.4.1.26.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.40.1.1.4 TFCS

6.10.3.4.1.40.1.1.4.1 TFCS (one CCTrCH case)

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
Note: In case TB	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.40.1.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.40.1.1.4.2.1 TFCS (conversational + SRB)

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.40.1.1.4.2.2 TFCS (Interactive or background)

TFCS size	5
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF4, TF0)
Note: In case TB:	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.40.1.2 Physical channel parameters

6.10.3.4.1.40.1.2.1 Physical channel (one CCTrCH case)

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1808 bits
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.64 (alt. 0.56)

6.10.3.4.1.40.1.2.2 Physical channel (two CCTrCH case)

6.10.3.4.1.40.1.2.2.1 Physical channel (conversational + SRB)

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.68

6.10.3.4.1.40.1.2.2.2 Physical channel (Interactive or background)

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1808 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.84 (alt. 0.72)

6.10.3.4.1.40.2 Downlink

6.10.3.4.1.40.2.1 Transport channel parameters

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

6.10.3.4.1.40.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.40.2.1.4 TFCS

6.10.3.4.1.40.2.1.4.1 TFCS (one CCTrCH case)

See Clause 6.10.3.4.1.39.2.1.4.

6.10.3.4.1.40.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.40.2.1.4.2.1 TFCS (conversational + SRB)

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.40.2.1.4.2.2 TFCS (Interactive or background)

TFCS size	5
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF4, TF0)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.40.2.2 Physical channel parameters

6.10.3.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See Clause 6.10.3.4.1.39.2.2

6.10.3.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

6.10.3.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing limit	0.56

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

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.41.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.41.2 Downlink

6.10.3.4.1.41.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

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

6.10.3.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.41.2.1.4 TFCS

6.10.3.4.1.41.2.1.4.1 TFCS (one CCTrCH case)

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
Note: In case TB si	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.41.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.41.2.1.4.2.1 TFCS (conversational + SRB)

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.41.2.1.4.2.2 TFCS (Interactive or background)

TFCS size	5
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0)
Note: In case TB siz	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.41.2.2 Physical channel parameters

6.10.3.4.1.41.2.2.1 Physical channel parameters (one CCTrCH)

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 5codes x 2time slots
	Max. Number of data bits/radio frame	2744 bits
	TFCI code word	16 bits
	Puncturing limit	0.52

6.10.3.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

6.10.3.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.64

6.10.3.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0,48

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

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.42.1 Uplink

6.10.3.4.1.42.1.1 Transport channel parameters

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

6.10.3.4.1.42.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.42.1.1.4 TFCS

See Clause 6.10.3.4.1.40.1.1.4.1.

6.10.3.4.1.42.1.2 Physical channel parameters

See Clause 6.10.3.4.1.40.1.2.1

6.10.3.4.1.42.2 Downlink

6.10.3.4.1.42.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1

6.10.3.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB See clause 6.10.3.4.1.31.2.1.1.

6.10.3.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.42.2.1.4 TFCS

TFCS size	30 (alt. 42)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
<u> </u>	[(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1))
Note: In case TB s	ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.42.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 2 time slots
		+SF16 x 4 codes x 1 time slot
	Max. Number of data bits/radio frame	5504 bits (alt. 5488)
	TFCI code word	16 bits (alt. 32)
	Puncturing limit	0.60

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

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.43.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.43.2 Downlink

6.10.3.4.1.43.2.1 Transport channel parameters

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

6.10.3.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.3.4.1.32.2.1.1.

6.10.3.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.43.2.1.4 TFCS

6.10.3.4.1.43.2.1.4.1 TFCS (one CCTrCH case)

TFCS size	36 (alt. 54)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)
	(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
	(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1)
	(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))
Note: In case TB s	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.43.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.43.2.1.4.2.1 TFCS (conversational + SRB)

TFCS size	6
	(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), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1)
	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.43.2.1.4.2.2 TFCS (Interactive or background)

TFCS size	6 (alt. 9)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0)
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF0, TF0, TF1, TF0), (TF0, TF0, TF0, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF0, TF0, TF0, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF0, TF0, TF0, TF7, TF0), (TF0, TF0, TF0, TF8, TF0))
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.43.2.2 Physical channel parameters

6.10.3.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6592 bits
	TFCI code word	32 bits
	Puncturing limit	0.48

6.10.3.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

6.10.3.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.60

6.10.3.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6608 bits
	TFCI code word	16 bits
	Puncturing limit	0,52

6.10.3.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.44.1 Uplink

6.10.3.4.1.44.1.1 Transport channel parameters

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

6.10.3.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

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

6.10.3.4.1.44.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.44.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	{SF8 x 1 code + SF2 x 1 code}
		x 1 time slot
	Max. Number of data bits/radio frame	2616 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52 (alt. 0.44)

6.10.3.4.1.44.2 Downlink

6.10.3.4.1.44.2.1 Transport channel parameters

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

6.10.3.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB See clause 6.10.3.4.1.35.2.1.1.

6.10.3.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.44.2.1.4 TFCS

```
TFCS size
                    66 (alt. 114)
                    (RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 kbps RAB, DCCH)=
TFCS
                    (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
                     (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
                    (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
                    (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
                    (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
                    (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
                    (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
                    (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
                    (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
                    (TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0)
                    (TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),
                    (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
                    (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
                    (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
                    (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
                    (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
                    (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
                    TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
                    (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),
                    (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),
                    (TF0, TF0, TF0, TF9, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1)
                    (TF0, TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF10, TF1), (TF2, TF1, TF1, TF10, TF1)
                    (alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
                    (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
                    (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
                    (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
                    (TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
                    (TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
                    (TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
                    (TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0)
                    (TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),
                    (TF0, TF0, TF0, TF11, TF0), (TF1, TF0, TF0, TF11, TF0), (TF2, TF1, TF1, TF11, TF0),
                    (TF0, TF0, TF0, TF12, TF0), (TF1, TF0, TF0, TF12, TF0), (TF2, TF1, TF1, TF12, TF0),
                    (TF0, TF0, TF0, TF13, TF0), (TF1, TF0, TF0, TF13, TF0), (TF2, TF1, TF1, TF13, TF0),
                    (TF0, TF0, TF0, TF14, TF0), (TF1, TF0, TF0, TF14, TF0), (TF2, TF1, TF1, TF14, TF0), (TF0, TF0, TF0, TF0, TF0, TF0, TF15, TF0), (TF1, TF0, TF0, TF15, TF0), (TF2, TF1, TF1, TF15, TF0),
                    (TF0, TF0, TF0, TF16, TF0), (TF1, TF0, TF0, TF16, TF0), (TF2, TF1, TF1, TF16, TF0),
                    (TF0, TF0, TF0, TF17, TF0), (TF1, TF0, TF0, TF17, TF0), (TF2, TF1, TF1, TF17, TF0),
                    (TF0, TF0, TF0, TF18, TF0), (TF1, TF0, TF0, TF18, TF0), (TF2, TF1, TF1, TF18, TF0),
                    (TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
                    (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
                    (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
                    (TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),
                    (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
                    (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
                    (TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),
                    (TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),
                    (TF0, TF0, TF0, TF9, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1),
                    (TF0, TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF10, TF1), (TF2, TF1, TF1, TF10, TF1),
                    (TF0, TF0, TF0, TF11, TF1), (TF1, TF0, TF0, TF11, TF1), (TF2, TF1, TF1, TF11, TF1),
                    (TF0, TF0, TF12, TF1), (TF1, TF0, TF0, TF12, TF1), (TF2, TF1, TF1, TF12, TF1),
                    (TF0, TF0, TF0, TF13, TF1), (TF1, TF0, TF0, TF13, TF1), (TF2, TF1, TF1, TF13, TF1),
                    (TF0, TF0, TF0, TF14, TF1), (TF1, TF0, TF0, TF14, TF1), (TF2, TF1, TF1, TF14, TF1), (TF0, TF0, TF0, TF0, TF15, TF1), (TF1, TF15, TF1), (TF0, TF0, TF15, TF1), (TF2, TF1, TF1, TF15, TF1),
                    (TF0, TF0, TF0, TF16, TF1), (TF1, TF0, TF0, TF16, TF1), (TF2, TF1, TF1, TF16, TF1),
                    (TF0, TF0, TF0, TF17, TF1), (TF1, TF0, TF0, TF17, TF1), (TF2, TF1, TF1, TF17, TF1),
                    (TF0, TF0, TF0, TF18, TF1), (TF1, TF0, TF0, TF18, TF1), (TF2, TF1, TF1, TF18, TF1))
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise
```

6.10.3.4.1.44.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 12 codes x 11 time slots
	Max. Number of data bits/radio frame	36400 bits
	TFCI code word	32 bits
	Puncturing limit	0.52

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

+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.45.1 Uplink

6.10.3.4.1.45.1.1 Transport channel parameters

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

6.10.3.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

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

6.10.3.4.1.45.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.45.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot + SF4 x 1
		codex 1 time slot
	Max. Number of data bits/radio frame	1392bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.56

6.10.3.4.1.45.2 Downlink

6.10.3.4.1.45.2.1 Transport channel parameters

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

6.10.3.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.10.3.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.45.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
Note: In case TB si	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.45.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1448 bits
	TFCI code word	16 bits
	Puncturing limit	0.56

6.10.3.4.1.46	Void
6.10.3.4.1.47	Void
6.10.3.4.1.48	Void

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

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

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+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49.1 Uplink

6.10.3.4.1.49.1.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.1.1.1.

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

See clause 6.10.3.4.1.13.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.49.1.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.49.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72

6.10.3.4.1.49.2 Downlink

6.10.3.4.1.49.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

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

See clause 6.10.3.4.1.13.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.49.2.1.4 TFCS

TFCS size	12	
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=	
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),	
	(TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),	
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),	
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)	
Note: In case TB s	Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.49.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0.76

6.10.3.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49a.1 Uplink

6.10.3.4.1.49a.1.1 Transport channel parameters

6.10.3.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.49a.1.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.49a.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.72

6.10.3.4.1.49a.2 Downlink

6.10.3.4.1.49a.2.1 Transport channel parameters

6.10.3.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2 7.95 5.9 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.49a.2.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.49a.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 7 codes x 1 time slot
	Max. Number of data bits/radio frame	1916 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.50.1 Uplink

6.10.3.4.1.50.1.1 Transport channel parameters

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

See clause 6.10.3.4.1.13.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.50.1.1.3 TFCS

TFCS size	8
TFCS	(64 kbps RAB, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.50.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF2 x 1 code x 1time slot + SF4 x 1
		code x 1 time slot
	Max. Number of data bits/radio frame	2784bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.60

6.10.3.4.1.50.2 Downlink

6.10.3.4.1.50.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.13.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.50.2.1.3 TFCS

TFCS size	8
TFCS	(64 kbps RAB, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.50.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 6codes x 2 time slots
	Max. Number of data bits/radio frame	2912bits
	TFCI code word	16 bits
	Puncturing limit	0.64

6.10.3.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51.1 Uplink

6.10.3.4.1.51.1.1 Transport channel parameters

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

6.10.3.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

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

6.10.3.4.1.51.1.1.4 TFCS

TFCS size	20	
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=	
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),	
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),	
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),	
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)	
Note: In case TB:	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.51.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44 (alt.0.40)

6.10.3.4.1.51.2 Downlink

6.10.3.4.1.51.2.1 Transport channel parameters

6.10.3.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51.2.1.4 TFCS

TFCS size	20	
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=	
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),	
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),	
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),	
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)	
Note: In case TB si	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.51.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0.48

6.10.3.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.10.3.4.1.51a.1 Uplink

6.10.3.4.1.51a.1.1 Transport channel parameters

6.10.3.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51a.1.1.4 TFCS

TFCS size	8 (alt. 12)	
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=	
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),	
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)	
	(alt.	
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),	
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),	
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),	
	(TF1, TF0, TF1), (TF1, TF1), (TF1, TF2, TF1))	
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.	

6.10.3.4.1.51a.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.76

6.10.3.4.1.51a.2 Downlink

6.10.3.4.1.51a.2.1 Transport channel parameters

6.10.3.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51a.2.1.4 TFCS

TFCS size	8
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)
Note: In case TB	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.51a.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips	
	Codes and time slots	SF16 x 6 codes x 1 time slot	
	Max. Number of data bits/radio frame	1640 bits	
	TFCI code word	16 bits	
	Puncturing limit	0.60	

6.10.3.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51b.1 Uplink

6.10.3.4.1.51b.1.1 Transport channel parameters

6.10.3.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1

6.10.3.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51b.1.1.4 TFCS

TFCS size	12	
TFCS	(64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=	
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0,	
	TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1,	
	TF1), (TF1, TF2, TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.51b.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips	
	Codes and time slots	SF2 x 1 code x 1 time slot	
	Max. Number of data bits/radio frame	2064 bits	
	TFCI code word	16 bit	
	TPC	2 bits	
	Puncturing Limit	0.68	

6.10.3.4.1.51b.2 Downlink

See clause 6.10.3.4.1.51.2.

6.10.3.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.52.1 Uplink

See clause 6.10.3.4.1.51.1.

6.10.3.4.1.52.2 Downlink

6.10.3.4.1.52.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.13.2.1.1.

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

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.52.2.1.4 TFCS

TFCS size	20	
TFCS	(Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=	
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),	
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),	
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),	
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise		

6.10.3.4.1.52.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips	
	Codes and time slots	{SF16 x 8 codes x 1 time slot} +	
		{SF16 x 5 codes x 1 time slot}	
	Max. Number of data bits/radio frame	3156 bits	
	TFCI code word	16 bits	
	Puncturing limit	0.44	

6.10.3.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.53.1 Uplink

6.10.3.4.1.53.1.1 Transport channel parameters

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

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.53.1.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)
Note: In case TB si	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.53.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips	
	Codes and time slots	SF2 x 1 code x 2 timeslots	
	Max. Number of data bits/radio frame 3760 bits		
TFCI code word 16 bits		16 bits	
TPC		2 bits	
	Puncturing Limit	0.52 (alt. 0.48)	

6.10.3.4.1.53.2 Downlink

See clause 6.10.3.4.1.52.2.

6.10.3.4.1.54 Void

6.10.3.4.1.55 Void

6

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

6.10.3.4.1.56.1 Uplink

6.10.3.4.1.56.1.1 Transport channel parameters

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

Higher Layer	RAB/Sig	nalling RB	RAB	RAB
RLC	Logical o	channel type	DTCH	DTCH
	RLC mo	de	AM	AM
	Payload	sizes, bit	320 (alt. 128)	320 (alt.128)
	Max data	a rate, bps	8000	8000
	AMD PD	U header, bit	16	16
MAC	MAC hea	ader, bit	4	4
	MAC mu	Itiplexing	2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
	TB sizes	, bit	340 (alt. 148)	
	TFS	TF0, bits	0x340 (alt. 0x148)	
		TF1, bits	1x340 (a	lt. 1x148)
		TF2, bits	N/A (alt. 5x148)	
	TTI, ms		40 (alt. 80)	
	Coding t	ype	TC	
	CRC, bit		16	
	Max nun	nber of bits/TTI after channel coding	1080 (alt. 2472)	
	Max nun matching	nber of bits/radio frame before rate	270 (alt.309)	
	RM attrik	oute	135-175	

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.56.1.1.3 TFCS

TFCS size	4 (alt. 6)
TFCS	(8 kbps RAB + 8 kbps RAB, DCCH)=
	(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)
	(alt. (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1))
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.56.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips	
Codes and time slots		SF16 x 1 code x 1 time slot	
Max. Number of data bits/radio frame 226 bits		226 bits	
	TFCI code word	16 bits	
	TPC	2 bits	
	Puncturing Limit	0.52 (alt. 0.48)	
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits			

Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits (alt. 16 bits).

6.10.3.4.1.56.2 Downlink

6.10.3.4.1.56.2.1 Transport channel parameters

6.10.3.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB	RAB
RLC	Logical channel type	DTCH	DTCH
	RLC mode	AM	AM
	Payload sizes, bit	320	320
	Max data rate, bps	8000	8000
	AMD PDU header, bit	16	16
MAC	MAC header, bit	4	4
	MAC multiplexing	2 logical channel multiplexing	
Layer 1	TrCH type	DCH	
	TB sizes, bit	340	
	TFS TF0, bits	0x340	
	TF1, bits	1x340	
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1080	
	Max number of bits/radio frame before rate matching	270	
	RM attribute	135-175	

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.56.2.1.3 TFCS

TFCS size	4
TFCS	(8 kbps RAB + 8 kbps RAB, DCCH)=
	(TF0,TF0), (TF1,TF0), (TF0,TF1), (TF1,TF1)
Note: In case TB si	ze zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.56.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 codes x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.56
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.		

6.10.3.4.1.57	Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.57.1	Uplink
6.10.3.4.1.57.1.1	Transport channel parameters
6.10.3.4.1.57.1.1.1	Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.57.1.1.3 TFCS

TFCS size	10	
TFCS	(64 kbps RAB + 64 kbps RAB, DCCH)=	
	(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),	
	(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.57.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.88 (alt .0.76)

6.10.3.4.1.57.2 Downlink

6.10.3.4.1.57.2.1 Transport channel parameters

6.10.3.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

Higher layer	RAB/Signalling RB		RAB	RAB
RLC	Logical ch	annel type	DTCH	DTCH
	RLC mod	e	AM	AM
	Payload s	izes, bit	320	320
	Max data	rate, bps	64000	64000
	AMD PDU	J header, bit	16	16
MAC	MAC head	der, bit	4	4
	MAC mult	iplexing	2 logical chann	nel multiplexing
Layer 1	TrCH type	;	DCH	
j	TB sizes, bit		340	
	TFS	TF0, bits	0x3	340
		TF1, bits	1x3	340
		TF2, bits	2x3	340
		TF3, bits	3x3	340
		TF4, bits	4x340	
	TTI, ms		20	
	Coding ty	pe	TC	
	CRC, bit		16	
	Max numb	per of bits/TTI after channel coding	4284	
	Max number of bits/radio frame before rate matching		21	42
	RM attribute		130-	-170

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.57.2.1.3 TFCS

TFCS size	10	
TFCS	(64 kbps RAB + 64 kbps RAB, DCCH)=	
	(TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0),	
	(TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)	
Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.		

6.10.3.4.1.57.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1364 bits
	TFCI code word	16 bits
	Puncturing limit	0.56

6.10.3.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.58.1 Uplink

6.10.3.4.1.58.1.1 Transport channel parameters

6.10.3.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	16000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1068
	Max number of bits/radio frame before rate	534
	matching	
	RM attribute	135-175

6.10.3.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.58.1.1.4 TFCS

TFCS size	8 (alt. 12)	
TFCS	(16 kbps RAB, 8 kbps RAB, DCCH)=	
	(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0),	
	(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1)	
	(alt.	
	(TF0,TF0,TF0), (TF1,TF0,TF0), (TF0,TF1,TF0), (TF1,TF1,TF0), (TF0,TF2,TF0), (TF1,TF2,TF0),	
	(TF0,TF0,TF1), (TF1,TF0,TF1), (TF0,TF1,TF1), (TF1,TF1,TF1), (TF0,TF2,TF1), (TF1,TF2,TF1))	
Note: In case TB	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.	

6.10.3.4.1.58.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot +
		SF16 x 1code x 1 time slot
	Max. Number of data bits/radio frame	696 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72 (alt. 0.68)

6.10.3.4.1.58.2 Downlink

6.10.3.4.1.58.2.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical	channel type	DTCH
	RLC mo	de	AM
	Payload	sizes, bit	640
	Max data	a rate, bps	64000
	AM PDU	header, bit	16
MAC	MAC hea	ader, bit	0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
-	TB sizes	, bit	656
	TFS	TF0, bits	0x656
		TF1, bits	1x656
		TF2, bits	2x656
		TF3, bits	4x656
	TTI, ms		40
	Coding t	уре	TC
	CRC, bit		16
	Max nun	nber of bits/TTI after channel coding	8076
	Max nun	nber of bits/radio frame before rate	2019
	matching		
	RM attribute		125-165

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

See clause 6.10.3.4.1.23.2.1.1

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.58.2.1.4 TFCS

TFCS size	16
TFCS	(64 kbps RAB, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF0,TF0), (TF3,TF0,TF0),
	(TF0,TF1,TF0), (TF1,TF1,TF0), (TF2,TF1,TF0), (TF3,TF1,TF0),
	(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF0,TF1), (TF3,TF0,TF1),
	(TF0,TF1,TF1), (TF1,TF1,TF1), (TF2,TF1,TF1), (TF3,TF1,TF1)
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.58.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1640 bits
	TFCI code word	16 bits
	Puncturing limit	0.64

6.10.3.4.1.59 Reserved for future use
6.10.3.4.1.60 Reserved for future use
6.10.3.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.61.1 Uplink
6.10.3.4.1.61.1.1 Transport channel parameters

6.10.3.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB		
RLC	Logical channel type	DTCH		
	RLC mode	UM		
	Payload sizes, bit	320		
	Max data rate, bps	8000		
	UMD PDU header, bit	8		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A		
Layer 1	TrCH type	DCH		
•	TB sizes, bit	328 (alt 0, 328)		
	TFS TF0, bits	0x328 (alt 1x0) (note)		
	TF1, bits	1x328		
	TTI, ms	40		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	1044		
	Max number of bits/radio frame before rate matching	261		
	RM attribute	135-175		

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.222).

6.10.3.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1

6.10.3.4.1.61.1.1.4 TFCS

TFCS size	8 (alt. 12)						
TFCS	(8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=						
	TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),						
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)						
	(alt.						
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),						
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),						
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),						
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1))						
Note: In case Ti	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.						

6.10.3.4.1.61.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC 2 bits	
	Puncturing Limit	0.68 (alt. 0.64)

6.10.3.4.1.61.2 Downlink

6.10.3.4.1.61.2.1 Transport channel parameters

6.10.3.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	320
	Max data rate, bps	8000
	AMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	328 (alt 0, 328)
	TFS TF0, bits	0x328 (alt 1x0) (note)
	TF1, bits	1x328
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1044
	Max number of bits/radio frame before rate	261
	matching	
	RM attribute	135-175
NOTE: In ca	ase of using this alternative, CRC parity bits are to	be attached any time since number of TrBlks are 1 even

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBiks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.222).

 $6.10.3.4.1.61.2.1.2 \qquad \text{Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB}$

See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.61.2.1.4 TFCS

TFCS size	8
TFCS	(8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF1),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)
Note: In case TB si	ze zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.61.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.10.3.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.1.1 Uplink

6.10.3.4.2.1.1.1 Transport channel parameters

6.10.3.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

Higher Layer	RAB/Signalling RB		RAB	SRB#5
RLC	Logical channel type		DTCH	SHCCH
	RLC mode		AM	TM
	Payload sizes, bit		320 (alt. 128)	168
	Max data rate, bps		64000	16800
	AMD/TrD PDU header, bit		16	0
MAC	MAC header, bit		1	1
	MAC multiplexing		N/A	N/A
Layer 1	TrCH type		USCH	USCH
	TB sizes, bit		337 (alt. 145)	169
	TFS TF0, bits		0x337 (alt. 0x145)	0x169
	TF1, bits		1x337 (alt. 1x145)	1x169
	TF2, bits		2x337 (alt. 3x145)	N/A
	TF3, bits		3x337 (alt. 7x145)	N/A
	TF4, bits		4x337 (alt. 10x145)	N/A
	TTI, ms		20	10
	Coding type		TC	CC 1/2
	CRC, bit		16	16
	Max number of bits/TTI after channel coding		4248 (alt. 4842)	386
	Max number of bits/radio frame before rate matching		2124 (alt. 2421)	386
	RM attribute		135-175	230-250

6.10.3.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

Higher layer	RAB/signalling RB	RAB/signalling RB		SRB#2	SRB#3	SRB#4	
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel typ	Logical channel type		DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		3400	3200	3200	3200	
	AMD/UMD PDU he	eader, bit	8	16	16	16	
MAC	MAC header, bit		5	5	5	5	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type		USCH				
	TB sizes, bit		149				
	TFS	TFS TF0, bits		0x149			
		TF1, bits		1x1	49		
	TTI, ms	TTI, ms		40			
	Coding type	Coding type		CC 1/3			
	CRC, bit		16				
	Max number of bits matching	Max number of bits/TTI before rate matching		519			
	Max number of bits rate matching	Max number of bits/radio frame before rate matching		130			
	RM attribute			190-210			

6.10.3.4.2.1.1.1.3 TFCS for USCH

TFCS size	20
TFCS	(64 kbps RAB, SHCCH, SRBs for DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0,
	TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0,
	TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1)

6.10.3.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

6.10.3.4.2.1.1.1.4.1 RACH transport channel configuration without DTCH

Higher	RAB/signalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of Radio Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC
					High prio	Low prio	
RLC	Logical channel type	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH
	RLC mode	TM	UM	AM	AM	AM	TM
	Payload sizes, bit	168	136	128	128	128	168
	Max data rate, bps	16800	13600	12800	12800	12800	16800
	AMD/UMD/TrD PDU	0	8	16	16	16	0
	header, bit						
MAC	MAC header, bit	2	26	26	26	26	2
	MAC multiplexing			6 logical chann	el multiplexing		
Layer 1	/er 1 TrCH type RACH						
	TB sizes, bit			170			
	TFS TF0, bits			1x1	170		

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 High prio	NAS_DT Low prio	RRC		
	TTI, ms			10)				
	Coding type			CC	1/2				
	CRC, bit	16							
	Max number of bits/TTI after channel coding	388							
Max number of 388 bits/radio frame before rate matching									

6.10.3.4.2.1.1.1.4.2 RACH transport channel configuration with DTCH

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of Radio	Interactive/	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC
	Bearer	Background				High prio	Low prio	
		RAB						
RLC	Logical channel	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH
	type							
	RLC mode	AM	TM	UM	AM	AM	AM	TM
	Payload sizes, bit	128	168	136	128	128	128	168
	Max data rate, bps	12800	16800	13600	12800	12800	12800	16800
	AMD/UMD/TrD	16	0	8	16	16	16	0
	PDU header, bit							
MAC	MAC header, bit	26	2	26	26	26	26	2
	MAC multiplexing			7 logical	channel mult	tiplexing		
Layer	TrCH type				RACH			
1	TB sizes, bit				170			
	TFS TF0, bits				1x170			
	TTI, ms		10					
	Coding type				CC 1/2			
	CRC, bit				16			
	Max number of							
	bits/TTI after							
	channel coding							
	Max number of	388						
	bits/radio frame							
	before rate							
	matching							

6.10.3.4.2.1.1.2 Physical channel parameters

6.10.3.4.2.1.1.2.1 Physical channel parameters for PUSCH

PUSCH	Midamble	512 chips
	Codes and time slots	
		SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1808 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.60 (alt. 0.56)

6.10.3.4.2.1.1.2.2 Physical channel parameters for PRACH

PRACH	Midamble	512 chips
	Codes and time slots	SF8 (alt. SF16) x 1 code x 1
		time slot
	Max. Number of data bits/radio frame	464 (alt. 232)
	Puncturing Limit	1 (alt. 0.56)

6.10.3.4.2.1.2 Downlink

6.10.3.4.2.1.2.1 Transport channel parameters

6.10.3.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher Layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	320	160
	Max data rate, bps	256000	16000
	AMD/UMD PDU header, bit	16	8
MAC	MAC header, bit	1	1
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	337	169
	TFS TF0, bits	0x337	0x169
	TF1, bits	1x337	1x169
	TF2, bits	2x337	N/A
	TF3, bits	4x337	N/A
	TF4, bits	8x337	N/A
	TF5, bits	N/A (alt. 12x337)	N/A
	TF6, bits	N/A (alt. 16x337)	N/A
	TTI, ms	10 (alt. 20)	10
	Coding type	TC	CC 1/2
	CRC, bit	16	16
	Max number of bits/TTI after channel coding	8484 (alt. 16968)	386
	Downlink: Max number of bits/radio frame before rate matching	8484 (alt. 8484)	386
	RM attribute	135-175	230-250

6.10.3.4.2.1.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

Higher layer	RAB/signalling RB	RAB/signalling RB			SRB#3	SRB#4
	User of Radio Bea	RRC	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	Payload sizes, bit			128	128
	Max data rate, bps	3400	3200	3200	3200	
	AMD/UMD PDU he	eader, bit	8	16	16	16
MAC	MAC header, bit		5	5	5	5
	MAC multiplexing	4 logical channel multiplexing				
Layer 1	TrCH type	DSCH				
TB sizes, bit		149				
	TFS	0x149				

	TF1, bits	1x149	
TTI, ms		40	
Coding type		CC 1/3	
CRC, bit		16	
Max number of bits/ matching	TTI before rate	519	
Max number of bits/	radio frame before	130	
rate matching			
RM attribute		155-165	

6.10.3.4.2.1.2.1.3 TFCS for DSCH

TFCS size	20 (alt. 28)
TFCS	(256 kbps RAB, SHCCH, SRB for DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0,
	TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0,
	TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1)
	(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,
	TF0, TF0), (TF6, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1,
	TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),
	(TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,
	TF1, TF1), (TF6, TF1, TF1))

6.10.3.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

6.10.3.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

RLC		nannel type	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	550		
RLC	RLC mod					High prio	Low prio	KKC	RRC		
	RLC mod		CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH		
	Payload s	C	UM	UM	AM	AM	AM	UM	TM		
		sizes, bit	160	136 or 120 (note)	128	128	128	160	168		
	Max data	rate, bps	32000 (alt. 16000)	27200 or 24000 (alt. 13600 or 12000)	25600 (alt. 12800)	25600 (alt. 12800)	25600 (alt. 12800)	32000 (alt. 16000)	33600 (alt. 16800)		
	AMD/UM header, b	D/TrD PDU oit	8	8	16	16	16	8	0		
MAC	MAC hea	der, bit	3	27 or 43	27	27	27	3	3		
	MAC mul	tiplexing			7 logica	I channel mult	iplexing				
Layer 1	TrCH type	е				FACH					
	TB sizes,	bit	171								
	TFS	TF0, bits	0x171								
		TF1, bits				1x171					
		TF2, bits				2x171					
		TF3, bits			3	3x171(alt. N/A))				
		TF4, bits				1x171(alt. N/A)					
	TTI, ms					20					
	Coding ty	pe	TC								
	CRC, bit	P -	16								
		number of 2256 (alt. 1134)									
	bits/TTI a coding	fter channel									
	Max num bits/radio		1128 (alt. 567)								
NOTE:			RLC payload	size depend or	n use of U-RN	TI or C-RNTI.					

6.10.3.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

Higher	RAB/sign	alling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6		
layer	User of R	adio Bearer	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	RRC	RRC		
RLC		nannel type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH		
	RLC mod		AM	UM	UM	AM	AM	AM	UM	TM		
	Payload s		320	160	136 or 120 (note)	128	128	128	160	168		
	Max data	rate, bps	32000 (alt. 16000)	32000 (alt. 16000)	27200 or 24000 (alt. 13600 or 12000)	25600 (alt. 12800)	25600 (alt. 12800)	25600 (alt. 12800)	32000 (alt. 16000)	33600 (alt. 16800)		
	AMD/UM header, b	D/TrD PDU it	16	8	8	16	16	16	8	0		
MAC	MAC hea	der, bit	27	3	27 or 43	27	27	27	3	3		
	MAC mul	tiplexing			8	logical chann	el multiplexing					
Layer 1	TrCH type			FACH								
			171, 363									
	TFS	TF0, bits				0x1	71					
		TF1, bits		1x171								
		TF2, bits		2x171								
		TF3, bits		1x363								
		TF4, bits		3x171 (alt N/A)								
		TF5, bits		4x171 (alt. N/A)								
		TF6, bits				2x363 (a	ılt. N/A)					
	TTI, ms			20								
	Coding ty	ре		TC								
	CRC, bit			16								
	Max num			2286 (alt. 1149)								
bits/TTI after channel												
	coding											
	Max num					1143 (a	lt. 575)					
	bits/radio											
		te matching	<u></u>									
NOTE:	MAC hea	ider size and	RLC payload :	size depend oi	n use of U-RN	II or C-RNTI.						

6.10.3.4.2.1.2.1.5 TFCS for FACH

6.10.3.4.2.1.2.1.5.1 TFCS for FACH transport channel configuration without DTCH

TFCS size	5 (alt. 3)
TFCS	FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2))

6.10.3.4.2.1.2.1.5.2 TFCS for FACH transport channel configuration with DTCH

TFCS size	7 (alt. 4)
TFCS	FACH = (TF0), (TF1), (TF2), (TF3), (TF4), (TF5), (TF6) (alt. FACH = (TF0), (TF1), (TF2), (TF3))

6.10.3.4.2.1.2.2 Physical channel parameters

6.10.3.4.2.1.2.2.1 Physical channel parameters for PDSCH

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	4400 bits
	TFCI code word	16 bits
	Puncturing Limit	0.44

6.10.3.4.2.1.2.2.2 Physical channel parameters for SCCPCH

6.10.3.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

SCCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
		(alt. SF16 x 2 codes x 1 time
		slot)
	Max. Number of data bits/radio frame	1204 bits (alt. 480 bits)
	TFCI code word	16 bits (alt. 8 bits)
	Puncturing Limit	1 (alt. 0.84)

6.10.3.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

SCCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
		(alt. SF16 x 2 codes x 1 time
		slot)
	Max. Number of data bits/radio frame	1204 bits (alt. 472 bits)
	TFCI code word	16 bits
	Puncturing Limit	1 (alt. 0.80)

6.10.3.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.2.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.2.2 Downlink

6.10.3.4.2.2.2.1 Transport channel parameters

6.10.3.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher Layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	320	160
	Max data rate, bps	384000	16000
	AMD/UMD PDU header, bit	16	8
MAC	MAC header, bit	1	1
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	337	169
	TFS TF0, bits	0x337	0x169
	TF1, bits	1x337	1x169
	TF2, bits	2x337	N/A
	TF3, bits	4x337	N/A
	TF4, bits	8x337	N/A
	TF5, bits	12x337	N/A
	TF6, bits	N/A (alt. 16x337)	N/A
	TF7, bits	N/A (alt. 20x337)	N/A
	TF8, bits	N/A (alt. 24x337)	N/A
	TTI, ms	10 (alt. 20)	10
Ì	Coding type	TC	CC 1/2
Ì	CRC, bit	16	16
	Max number of bits/TTI after channel coding	12720 (alt. 25440)	386
	Downlink: Max number of bits/radio frame before rate matching	12720 (alt. 12720)	386
	RM attribute	135-175	230-250

6.10.3.4.2.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH See clause 6.10.3.4.2.1.2.1.2

6.10.3.4.2.2.2.1.3 TFCS for DSCH

TFCS size	24 (alt. 36)
TFCS	(384 kbps RAB, SHCCH, SRBs for DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,
	TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1,
	TF0), (TF5, TF1, TF0), (TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1),
	(TF4, TF0, TF1), (TF5, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,
	TF1, TF1)
	(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,
	TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1,
	TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0),
	(TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3,
	TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0,
	TF1), (TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),
	(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1))

6.10.3.4.2.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH (with & without DTCH)

See clause 6.10.3.4.2.1.2.1.4.

6.10.3.4.2.2.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

6.10.3.4.2.2.2.2 Physical channel parameters

6.10.3.4.2.2.2.1 Physical channel parameters for PDSCH

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6608 bits (alt. 6592 bits)
	TFCI code word	16 bits (alt. 32 bits)
	Puncturing Limit	0.48

6.10.3.4.2.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.

6.10.3.4.2.3 Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.3.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.3.2 Downlink

6.10.3.4.2.3.2.1 Transport channel parameters

6.10.3.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher	RAB/Signalling RB	RAB	SRB#5
Layer			
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	640	160
	Max data rate, bps	2048000	16000
	AMD/UMD PDU header, bit	16	8
MAC	MAC header, bit	1	1
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	657	169
	TFS TF0, bits	0x657	0x169
	TF1, bits	1x657	1x169
	TF2, bits	2x657	N/A
	TF3, bits	4x657	N/A
	TF4, bits	8x657	N/A
	TF5, bits	12x657	N/A
	TF6, bits	16x657	N/A
	TF7, bits	20x657	N/A
	TF8, bits	24x657	N/A
	TF9, bits	28x657	N/A
	TF10, bits	30x657 (alt. 32x657)	N/A
	TF11, bits	N/A (alt. 36x657)	N/A
	TF12, bits	N/A (alt. 40x657)	N/A
	TF13, bits	N/A (alt. 44x657)	N/A
	TF14, bits	N/A (alt. 48x657)	N/A
	TF15, bits	N/A (alt. 52x657)	N/A
	TF16, bits	N/A (alt. 56x657)	N/A
	TF17, bits	N/A (alt. 60x657)	N/A
	TF18, bits	N/A (alt. 64x657)	N/A
	TTI, ms	10 (alt. 20)	10
	Coding type	TC	CC 1/2
	CRC, bit	16	16
	Max number of bits/TTI after channel coding	60624 (alt. 129330)	386
	Downlink: Max number of bits/radio frame	60624 (alt. 64665)	386
	before rate matching	, , ,	
ĺ	RM attribute	135-175	230-250

6.10.3.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH See clause 6.10.3.4.2.1.2.1.2

6.10.3.4.2.3.2.1.3 TFCS for DSCH

TFCS size	41 (alt.76)
TFCS	(2048 kbps RAB, SHCCH, SRBs for DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,
	TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0,
	TF0),
	(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5,
	TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF0, TF0,
	TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1),
	(TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,
	TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1)
	(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,
	TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF9, TF0, TF0), (TF10, TF0,
	TF0),(TF11, TF0, TF0), (TF12, TF0, TF0), (TF13, TF0, TF0), (TF14, TF0, TF0), (TF15, TF0,
	TF0), (TF16, TF0, TF0), (TF17, TF0, TF0), (TF18, TF0, TF0),
	(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5,
	TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0), (TF8, TF1, TF0), (TF9, TF1, TF0), (TF10, TF1,
	TF0),(TF11, TF1, TF0), (TF12, TF1, TF0), (TF13, TF1, TF0), (TF14, TF1, TF0), (TF15, TF1,
	TF0), (TF16, TF1, TF0), (TF17, TF1, TF0), (TF18, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1),
	(TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7,
	TF0, TF1), (TF8, TF0, TF1), (TF9, TF0, TF1), (TF10, TF0, TF1), (TF11, TF0, TF1), (TF12, TF0,
	TF1), (TF13, TF0, TF1), (TF14, TF0, TF1), (TF15, TF0, TF1), (TF16, TF0, TF1), (TF17, TF0,
	TF1), (TF18, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,
	TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1), (TF9, TF1, TF1), (TF10, TF1,
	TF1),(TF11, TF1, TF1), (TF12, TF1, TF1), (TF13, TF1, TF1), (TF14, TF1, TF1), (TF15, TF1,
	TF1), (TF16, TF1, TF1), (TF17, TF1, TF1), (TF18, TF1, TF1))

6.10.3.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.2.1.2.1.4.1.

6.10.3.4.2.3.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.45.1.

6.10.3.4.2.3.2.2 Physical channel parameters

6.10.3.4.2.3.2.2.1 Physical channel parameters for PDSCH

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 12 codes x 11 time slots
	Max. Number of data bits/radio frame	36400 bits
	TFCI code word	32 bits
	Puncturing Limit	0.56 (alt. 0.52)

6.10.3.4.2.3.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1

6.10.3.4.2.4 Interactive or background / UL: 384 DL: 2048 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.4.1 Uplink

6.10.3.4.2.4.1.1 Transport channel parameters

6.10.3.4.2.4.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	TM
	Payload sizes, bit	320 (alt. 128)	168
	Max data rate, bps	384000	16800
	AMD/TrD PDU header, bit	16	0
MAC	MAC header, bit	1	1
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	USCH	USCH
	TB sizes, bit	337 (alt. 145)	169
	TFS TF0, bits	0x337 (alt. 0x145)	0x169
	TF1, bits	1x337 (alt. 1x145)	1x169
	TF2, bits	2x337 (alt. 5x145)	N/A
	TF3, bits	4x337 (alt. 10x145)	N/A
	TF4, bits	8x337 (alt. 20x145)	N/A
	TF5, bits	12x337 (alt. 30x145)	N/A
	TF6, bits	16x337 (alt. 40x145)	N/A
	TF7, bits	20x337 (alt. 50x145)	N/A
	TF8, bits	24x337 (alt. 60x145)	N/A
	TTI, ms	20	10
	Coding type	TC	CC 1/2
Î	CRC, bit	16	16
Ì	Max number of bits/TTI after channel coding	25440 (alt. 29004)	386
	Max number of bits/radio frame before rate matching	12720 (alt. 14502)	386
	RM attribute	135-175	230-250

6.10.3.4.2.4.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2

6.10.3.4.2.4.1.1.3 TFCS for USCH

TFCS size	36
TFCS	(384 kbps RAB, SHCCH, SRBs for DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,
	TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1,
	TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5, TF1, TF0), (TF6, TF1, TF0),
	(TF7, TF1, TF0), (TF8, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3,
	TF0, TF1), (TF4, TF0, TF1), (TF5, TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1)
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,
	TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1)

6.10.3.4.2.4.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4

6.10.3.4.2.4.1.2 Physical channel parameters

6.10.3.4.2.4.1.2.1 Physical channel parameters for PUSCH

PUSCH	Midamble	512 chips
	Codes and time slots	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	7264 bits
	TFCI code word	32 bits
	TPC	2 bits
	Puncturing Limit	0.52 (alt. 0.44)

6.10.3.4.2.4.1.2.2 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2

6.10.3.4.2.4.2 Downlink

6.10.3.4.2.4.2.1 Transport channel parameters

See clause 6.10.3.4.2.3.2.1

6.10.3.4.2.4.2.2 Physical channel parameters

6.10.3.4.2.4.2.2.1 Physical channel parameters for PDSCH

PDSCH	Midamble	256 chips
	Codes and time slots	SF1 x 1 codes x 9 time slots
	Max. Number of data bits/radio frame	39712 bits
	TFCI code word	32 bits
	Puncturing Limit	0.64 (alt. 0.60)

6.10.3.4.2.4.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1

6.10.3.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.10.3.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH SHCCH and BCCH

6.10.3.4.3.1.1 Uplink

6.10.3.4.3.1.1.1 Transport channel parameters

6.10.3.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.10.3.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.10.3.4.3.1.1.5 TFCS for USCH

TFCS size	10
TFCS	(64 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),
	(TF3, TF1), (TF4, TF1)

6.10.3.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

Higher layer	RAB/signalling RB	SRB#0	SRB#5
	User of Radio Bearer	RRC	RRC
RLC	Logical channel type	CCCH	SHCCH
	RLC mode	TM	TM
	Payload sizes, bit	168	168
	Max data rate, bps	16800	16800
	TrD PDU header, bit	0	0
MAC	MAC header, bit	2	2
	MAC multiplexing	2 logical chann	el multiplexing
Layer 1	TrCH type	RAG	CH
	TB sizes, bit	17	0
	TFS TF0, bits	1x1	70
	TTI, ms	10)
	Coding type	CC 1/2	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	38	88
	Max number of bits/radio frame before rate matching	38	88

6.10.3.4.3.1.1.2 Physical channel parameters

6.10.3.4.3.1.1.2.1 Physical channel parameters for DPCH

See clause 6.10.3.4.1.4.1.2.

6.10.3.4.3.1.1.2.2 Physical channel parameters for PUSCH

PUSCH	Midamble	512 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1808 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76 (alt. 0.68)

6.10.3.4.3.1.1.2.3 Physical channel parameters for PRACH

See clause 6.10.3.4.2.1.1.2.2.

6.10.3.4.3.1.2 Downlink

6.10.3.4.3.1.2.1 Transport channel parameters

6.10.3.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.10.3.4.3.1.2.1.5 TFCS for DSCH

TFCS size	10 (alt. 14)
TFCS	(256 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),
	(TF3, TF1), (TF4, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF0,
	TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1))

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	hannel type	CCCH	SHCCH	BCCH
	RLC mod	de	UM	UM	TM
RLC	Payload	sizes, bit	160	160	168
		a rate, bps	32000 (alt. 16000)	32000 (alt. 16000)	33600 (alt. 16800)
	UMD/TrE	DPDU header, bit	8	8	0
MAC	MAC hea	ader, bit		3	
IVIAC	MAC mu	Itiplexing	3 lo	gical channel multiplex	ring
	TrCH typ	е	FACH		
	TB sizes	•	171		
		TF0, bits	0x171		
		TF1, bits	1x171		
	TFS	TF2, bits	2x171		
		TF3, bits	3x171 (alt. N/A)		
Layer 1	TF4, bits			4x171 (alt. N/A)	
	TTI, ms		20		
	Coding to		TC		
	CRC, bit		16		
	Max num	nber of bits/TTI after	2256 (alt. 1134)		
	channel				
		nber of bits/radio frame		1128 (alt 567)	
	before rate matching				

6.10.3.4.3.1.2.1.7 TFCS for FACH

TFCS size	5 (alt. 3)
TFCS	FACH = (TF0), (TF1), (TF2), (TF3), (TF4) (alt. FACH = (TF0), (TF1), (TF2))

6.10.3.4.3.1.2.2 Physical channel parameters

6.10.3.4.3.1.2.2.1 Physical channel parameters for DPCH

Seeclause 6.10.3.4.1.4.2.2.

6.10.3.4.3.1.2.2.2 Physical channel parameters for PDSCH

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	4400 bits
	TFCI code word	16 bits
	Puncturing Limit	0.48

6.10.3.4.3.1.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.10.3.4.3.2.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.2.2 Downlink

6.10.3.4.3.2.2.1 Transport channel parameters

6.10.3.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.10.3.4.3.2.2.1.5 TFCS for DSCH

TFCS size	12 (alt. 18)
TFCS	(384 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1))

6.10.3.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.2.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.2.2.2 Physical channel parameters

6.10.3.4.3.2.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.3.2.2.2.2 Physical channel parameters for PDSCH

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6608 bits
	TFCI code word	16 bits
	Puncturing Limit	0.48

6.10.3.4.3.2.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.10.3.4.3.3.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.3.2 Downlink

6.10.3.4.3.3.2.1 Transport channel parameters

6.10.3.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.3.2.1.1.

6.10.3.4.3.3.2.1.5 TFCS for DSCH

TFCS size	22 (alt. 38)
TFCS	(2048 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF8, TF0), (TF9, TF0), (TF10, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),
	(TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15,
	TF1), (TF16, TF1), (TF17, TF1), (TF18, TF1))

6.10.3.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.3.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.3.2.2 Physical channel parameters

6.10.3.4.3.3.2.2.1 Physical channel parameters for downlink DPCH

See clause 6.10.3.4.1.4.2.2.

6.10.3.4.3.3.2.2.2 Physical channel parameters for PDSCH

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF1 x 1 code x 7 time slot
	Max. Number of data bits/radio frame	30896 bits (alt. 30880)
	TFCI code word	16 bits (alt. 32 bits)
	Puncturing limit	0.48 (alt. 0.44)

6.10.3.4.3.3.2.2.3 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.1.

6.10.3.4.4 Combinations on SCCPCH

6.10.3.4.4.1 Stand-alone signalling RB for PCCH

6.10.3.4.4.1.1 Transport channel parameters

6.10.3.4.4.1.1.1 Transport channel parameter of SRB for PCCH

Higher layer	RAB/signalling RB	SRB
	User of Radio Bearer	RRC
RLC	Logical channel type	PCCH
	RLC mode	TM
	Payload sizes, bit	240 (alt. 80)

	Max data rate, bps		12000 (alt. 8000)
	TrD PDU header, bit		0
MAC	MAC header, bi	t	0
	MAC multiplexing	ng	N/A
Layer 1	TrCH type		PCH
-	TB sizes, bit		240 (alt. 80)
	TFS	TF0, bts	0x240 (alt. 0x80)
		TF1, bits	1x240 (alt. 1x80)
		TF2, bits	N/A (alt.2x80)
	TTI, ms		20
	Coding type		CC 1/2
	CRC, bit		16
	Max number of bits/TTI before rate matching		528 (alt. 400)
	Max number of rate matching	bits/radio frame before	264 (alt. 200)
	RM attribute		210-250

6.10.3.4.4.1.1.2 TFCS

TFCS size	2 (alt. 3)
TFCS	SRBs for PCCH = (TF0), (TF1) (alt. (TF0), (TF1), (TF2))

6.10.3.4.4.1.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
		(alt. SF16 x 1 code x 1 time
		slot)
	Max. Number of data bits/radio frame	480 bits (alt. 236 bits)
	TFCI code word	8 bits
	Puncturing limit	1

6.10.3.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2.1 Transport channel parameters

6.10.3.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

Higher	RAB/signalling RB		RAB
layer	User of Radio Bearer		Interactive/ Background RAB
RLC	Logical chan	inel type	DTCH
	RLC mode		AM
	Payload size	es, bit	320
	Max data rat	te, bps	32000 (alt. 16000)
	AMD PDU h	eader, bit	16
MAC	MAC header	r, bit	27
IVIAC	MAC multiple	exing	N/A
Layer 1	TrCH type		FACH
	TB sizes, bit		363
		TF0, bits	0 x363
	TFS	TF1, bits	1x363
	TF2, bits		2x363 (alt. N/A)
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI before rate matching Max number of bits/radio frame before rate		2286 (alt. 1149)
			1143 (alt. 575)
	matching		
	RM attribute		110-150

6.10.3.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

Higher	RAB/signalling RB		SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	
layer	User of Radio Bearer		RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	
						High prio	Low prio		
RLC	Logical chan	nel type	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	
	RLC mode		UM	UM	AM	AM	AM	TM	
	Payload size	es, bit	160	136 or 120 (note)	128	128	128	168	
	Max data rate, bps		32000 (alt. 16000)	27200 or 24000 (alt. 24000 or 12000)	25600 (alt. 12800)	25600 (alt. 12800)	25600 (alt. 12800)	33600 (alt. 16800)	
	AMD/UMD/T bit	rD PDU header,	8	8	16	16	16	0	
MAC	MAC header	, bit	3	27 or 43	27	27	27	3	
IVIAC	MAC multiplexing			6 logical channel multiplexing					
Layer 1	1 TrCH type		FACH						
	TB sizes, bit		171						
		TF0, bits			0x1	71			
		TF1, bits	1x171						
		TF2, bits	2x171						
	TFS	TF3, bits	3x171 (alt. N/A)						
		TF4, bits		4x171 (alt. N/A)					

	TTI, ms	20	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI before	2256 (alt. 1134)	
	rate matching		
	Max number of bits/radio	1128 (alt.567)	
	frame before rate matching		
	RM attribute	200-240	
NOTE:	MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.		

6.10.3.4.4.2.1.3 TFCS

TFCS size	9 (alt. 4)
TFCS	(32kbps RAB, SRBs for CCCH/DCCH/BCCH) =
	(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4),(TF1, TF0), (TF1, TF1), (TF1, TF2),
	(TF2, TF0) (alt. (TF0, TF0), (TF0, TF1), (TF0, TF2),
	(TF1, TF0))

Note: First TFCS applies when the alternative for the 32kbps RAB and the alternative for the SRBs for CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32kbps RAB and the alt. for the SRBs for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid.

6.10.3.4.4.2.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time
	Codos and time siets	slot (alt. SF16 x 2 codes x 1
		time slot)
	Max. Number of data bits/radio	1204 bits (alt. 472)
	frame	
	TFCI code word	16 bits
	Puncturing limit	0.60 (alt. 0.48)

6.10.3.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2a.1 Transport channel parameters

6.10.3.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

Higher	RAB/Sigr	nalling RB	RAB	RAB	
Layer	User of F	Radio Bearer	Interactive/Background RAB	Interactive/Background RAB	
RLC	Logical c	hannel type	DTCH	DTCH	
	RLC mod	de	AM	AM	
	Payload:	sizes, bit	320	320	
	Max data	rate, bps	32000 (alt. 16000)	32000 (alt. 16000)	
	AMD PD	U header, bit	16	16	
MAC	MAC hea	ader, bit	27	27	
	MAC mu	Itiplexing	2 logical chann	nel multiplexing	
Layer 1	TrCH typ	e	FACH		
	TB sizes,	, bit	363		
	TFS	TF0, bits	0x3	363	
		TF1, bits	1x3	363	
		TF2, bits	2x363 (alt. N/A)		
	TTI, ms		2	0	
	Coding ty	/pe	TC		
	CRC, bit		16		
	Max num	ber of bits/TTI before rate	2286 (alt. 1149)		
	matching				
		ber of bits/radio frame before	1143 (a	alt. 575)	
	rate mate				
	RM attrib	oute	110 - 150		

6.10.3.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2

6.10.3.4.4.2a.1.3 TFCS

TFCS size	9 (alt. 4)	
TFCS	(32kbps RAB + 32kbps RAB, SRBs for CCCH/DCCH/BCCH) =	
	(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2),	
	(TF2, TF0)	
	(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0))	
Note: First TFC	CS applies when the alternative for the 32kbps RABs and the alternative for the SRBs for	
CCCH/DCCH/BCCH are both not configured. The alt. TFCS applies when both the alt. for the 32kbps RABs and the		
	s for CCCH/DCCH/BCCH are configured. All other combinations of these alternatives are not valid.	

6.10.3.4.4.2a.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
		(alt. SF16 x 2 codes x 1 time slot)
	Max. Number of data bits/radio frame	1204 bits (alt. 472)
	TFCI code word	16 bits
	Puncturing limit	0.60 (alt. 0.48)

6.10.3.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.2b.1 Transport channel parameters

6.10.3.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for

BCCH

See clause 6.10.3.4.4.2.1.2

6.10.3.4.4.2b.1.2 TFCS

TFCS size	5 (alt. 3)
TFCS	(SRBs for CCCH/DCCH/BCCH) =
	(TF0), (TF1), (TF2), (TF3), (TF4) (alt. (TF0), (TF1), (TF2))

6.10.3.4.4.2b.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time
		slot (alt. SF16 x 2 codes x
		1 time slot)
	Max. Number of data bits/radio	1204 bits (alt. 480 bits)
	frame	
	TFCI code word	16 bits (alt. 8 bits)
	Puncturing limit	1 (alt. 0.84)

6.10.3.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3.1 Transport channel parameters

6.10.3.4.4.3.1.1 Transport channel parameters for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.1.

6.10.3.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

configured.

6.10.3.4.4.3.1.4 TFCS

TFCS size	30 (alt. 8)
TFCS	(32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =
	(TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0, TF0, TF4), (TF0, TF0, TF0, TF0, TF0, TF0, TF0, TF0,
	TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4), (TF1, TF0,
	TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4),(TF1, TF1, TF0),
	(TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4), (TF2, TF0, TF0), (TF2,
	TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF1, TF0), (TF2, TF1, TF1),
	(TF2, TF1, TF2), (TF2, TF1, TF3), (TF2, TF1, TF4)
	(alt. (TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0,
	TF2, TF0), (TF0, TF2, TF1), (TF1, TF0, TF0))
Note: alt. TFCS ap	plies when alts for 32 kbps RAB, SRB for PCCH, and SRBs for CCCH/ DCCH/ BCCH are all

6.10.3.4.4.3.2 Physical channel parameters

S-CCPCH	Midamble	512 chips		
	Codes and time slots	SF16 x 8 codes x 1 time		
		slot (alt. SF16 x 2 codes x		
		1 time slot)		
	Max. Number of data bits/radio	1936 bits (alt. 472 bits)		
	frame			
	TFCI code word	16 bits		
	Puncturing limit	0.52 (alt. 0.56)		
Note: Alt. applies	Note: Alt. applies when alts for 32 kbps RAB and SRBs for CCCH/ DCCH/			
BCCH are both of	BCCH are both configured.			

6.10.3.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3a.1 Transport channel parameters

6.10.3.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.10.3.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

6.10.3.4.4.3a.1.3 TFCS

TFCS size	10 (alt.7)
TFCS	(SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =
	(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1, TF2),
	(TF1, TF3), (TF1, TF4)
	(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0), (TF2, TF1))
Note: alt. TFCS	S applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured.

6.10.3.4.4.3a.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
		(alt. SF16 x 2 codes x 1 time
		slot)
	Max. Number of data bits/radio frame	1204 bits (alt. 480 bits)
	TFCI code word	16 bits (alt. 8 bits)
	Puncturing limit	0.84 (alt. 0.84)
Note: Alt. applies when alt for SRBs for CCCH/ DCCH/ BCCH is configured.		

6.10.3.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.10.3.4.4.4.1 Transport channel parameters

6.10.3.4.4.4.1.1 Transport channel parameters of RB for CTCH

Higher lever	DAD/signallin	a DD	N/A
Higher layer	RAB/signalling RB User of Radio Bearer		·
	User of Radio	Bearer	BMC
RLC	Logical chani	nel type	CTCH
	RLC mode		UM
	Payload sizes	s, bit	152
	Max data rate	e, bps	15200
	UMD PDU he	eader, bit	8
MAC	MAC header,	bit	3
	MAC multiple	exing	N/A
Layer 1	TrCH type		FACH
	TB sizes, bit		163
	TFS	TF0, bits	0x163
		TF1, bits	1x163
		TF2, bits	2x163
	TTI, ms	•	20
	Coding type		CC 1/3
	CRC, bit		16
	Max number	of bits/TTI before rate	1098
	matching		
	Max number	of bits/radio frame	549
	before rate m	atching	
	RM attribute		200-240

6.10.3.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

Higher layer	Higher layer RAB/signalling RB		SRB#0	SRB#5	
	User of Radio Bearer		RRC	RRC	
RLC	Logical channel type		CCCH	BCCH	
	RLC mode		UM	TM	
	Payload sizes, bit		160	168	
	Max data rate, bps		16000	16800	
	AMD/UMD/TrD PD	U header, bit	8	0	
MAC	MAC header, bit		3	3	
IVIAC	MAC multiplexing		2 logical channel multiplexing		
Layer 1	Layer 1 TrCH type		FACH		
	TB sizes, bit		171		
		TF0, bits	0x171		
	TFS	TF1, bits	1x171		
		TF2, bits	2x171		
	TTI, ms		20		
	Coding type		TC		
	CRC, bit		16		
	Max number of bits matching	/TTI before rate	1134		

Higher layer	RAB/signalling RB	SRB#0	SRB#5
	User of Radio Bearer	RRC	RRC
	Max number of bits/radio frame before rate matching	567	
	RM attribute	200-240)

6.10.3.4.4.1.3 TFCS

TFCS size	4
TFCS	(RB for CTCH, SRBs for CCCH/BCCH) =
	(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0), (TF1, TF1), (TF2, TF0)

6.10.3.4.4.4.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word 16 bits	
	Puncturing limit	0.80

6.10.3.4.5 Combinations on PRACH

6.10.3.4.5.1 SRB for CCCH + SRB for DCCH

6.10.3.4.5.1.1 Transport channel parameters

6.10.3.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

Higher	RAB/signalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT
					High priority	Low priority
RLC	Logical channel type	CCCH	DCCH	DCCH	DCCH	DCCH
	RLC mode	TM	UM	AM	AM	AM
	Payload sizes, bit	168	136	128	128	128
	Max data rate, bps	16800	13600	12800	12800	12800
	AMD/UMD/TrD PDU	0	8	16	16	16
	header, bit					
MAC	MAC header, bit	2	26	26	26	26
	MAC multiplexing	5 logical channel multiplexing				
Layer 1	TrCH type	RACH				
-	TB sizes, bit			170		
	TFS TF0, bits	1x170				
	TTI, ms	10				
	Coding type	CC 1/2				
	CRC, bit	16				
	Max number of			388		
	bits/TTI after channel					
	coding					
	Max number of			388		
	bits/Radio frame					
	before rate matching					

6.10.3.4.5.1.1.2 TFCS

TFCS size	1
TFCS	SRBs for CCCH/ DCCH = (TF0)

6.10.3.4.5.1.2 Physical channel parameters

PRACH	Midamble	512 chips
	Codes and time slots	SF8 (alt. SF16) x 1 code x 1
		time slot
	Max. Number of data bits/radio frame	488 bits (alt. 244 bits)
	Puncturing Limit	1.0 (alt. 0.60)

6.10.3.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.3.4.5.2.1 Transport channel parameters

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High priority	NAS_DT Low priority
RLC	Logical channel type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH
	RLC mode	AM	TM	UM	AM	AM	AM
	Payload sizes, bit	128	168	136	128	128	128
	Max data rate, bps	12800	16800	13600	12800	12800	12800
	AMD/UMD/TrD PDU header, bit	16	0	8	16	16	16
MAC	MAC header, bit	26	2	26	26	26	26
	MAC multiplexing	6 logical channel multiplexing					
Layer 1	TrCH type	RACH					
	TB sizes, bit	es, bit 170					
	TFS TF0, bits	1x170					
	TTI, ms	10					
	Coding type	CC 1/2					
	CRC, bit	16					
	Max number of bits/TTI after channel coding			38	88		
	Max number of bits/ Radio frame before rate matching			38	88		

6.10.3.4.5.2.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

6.10.3.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.10.3.4.5.3.1 Transport channel parameters

Higher	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio 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	128	128	168	136	128	128	128
	Max data rate, bps	12800	12800	16800	13600	12800	12800	12800
	AMD/UMD/TrD PDU header, bit	16	16	0	8	16	16	16
MAC	MAC header, bit	26	26	2	26	26	26	26
	MAC multiplexing			7 logical	channel mult	tiplexing		_
Layer	TrCH type				RACH			
1	TB sizes, bit				170			
	TFS TF0, bits	1x170						
	TTI, ms	10						
	Coding type	CC 1/2						
	CRC, bit	16						
	Max number of	388						
	bits/TTI after							
	channel coding							
	Max number of				388			
	bits/ Radio frame							
	before rate							
	matching							

6.10.3.4.5.3.2 Physical channel parameters

See clause 6.10.3.4.5.1.2.

6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows:

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	328
	Max data rate, bps	8200
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TTI, ms	40
	Coding type	CC 1/3
	CRC, bit	16
	Max number of bits/TTI after channel coding	1080
	Uplink: Max number of bits/radio frame before	270
	rate matching	
	RM attribute	135-175

TFCS

TFCS size	4
TFCS	(8 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	328
	Max data rate, bps	8200
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TTI, ms	40
	Coding type	CC 1/3
	CRC, bit	16
	Max number of bits/TTI after channel coding	1080
	RM attribute	135-175

TFCS

TFCS size	4
TFCS	(8 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.11.2 Unacknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed:

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	1336
	Max data rate, bps	66800
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092
	Uplink: Max number of bits/radio frame before	2046
	rate matching	
	RM attribute	130-170

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	1336
	Max data rate, bps	66800
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092
	RM attribute	130-170

6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows:

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	128
	Max data rate, bps	6400
	UMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	144
	TFS 0x144	0x144
	1x144	1x144
	TTI, ms	20
	Coding type	CC 1/3
	CRC, bit	16
	Max number of bits/TTI after channel coding	504
	Uplink: Max number of bits/radio frame before	252
	rate matching	
	RM attribute	135-175

TFCS

TFCS size	4
TFCS	(RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	128
	Max data rate, bps	6400
	UMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	144
	TFS 0x144	0x144
	1x144	1x144
	TTI, ms	20
	Coding type	CC 1/3
	CRC, bit	16
	Max number of bits/TTI after channel coding	504
	RM attribute	135-175

TFCS

TFCS size	4
TFCS	(RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092
	Uplink: Max number of bits/radio frame before	2046
	rate matching	
	RM attribute	130-170

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092
	RM attribute	130-170

6.11.5 Reference Radio Bearer configurations used in Radio Bearer testing for 1.28 Mcps TDD

6.11.5.1 RABs and signalling RBs

See clause 6.10.3.1.

6.11.5.2 Combinations of RABs and Signalling RBs

In this document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 1a) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (Multiframe)
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL:(12.2, 7.95, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75)kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Void.
- 19) Void.
- 20) Void.
- 21) Void.
- 22) Void.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b)Interactive or background / UL:16 DL:16 kbps / PS RAB \pm UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c)Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d)Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.(20 msTTI)
- 24) Void.
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29)Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31)Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35)Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Void.
- 37) Void.

- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:32 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38a)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:0 DL:0 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38b)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38c)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:32 DL:32 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38d)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB +
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38e)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
 - + Interactive or background / UL:0 DL:0 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38f)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38g)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
 - + Interactive or background / UL:16 DL:16 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38h)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
 - + Interactive or background / UL:32 DL:32 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38i)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38j)Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
 - + Interactive or background / UL:64 DL:128 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 39) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:32 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:64 DL:128 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:64 DL:256 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:64 DL:384 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Interactive or background / UL:128 DL:2048 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Void.
- 47) Void.
- 48) Void.49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a)Conversational / speech / UL:(12.2, 7.95, 5.9, 4.75) DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB
 - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a)Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b)Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + Interactive or background / UL:16 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + Interactive or background / UL:64 DL:128 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 - + Interactive or background / UL:128 DL:128 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Void.
- 55) Void.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or Background / UL:64 DL:64 kbps / CS RAB
 - + Interactive or background / UL:64 DL:64 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / Unknown / UL:16 DL:64 kbps / CS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 59) Reserved for future use
- 60) Reserved for future use

- 61) Conversational / Unknown / UL:8 DL:8 kbps / CS RAB
 - + Interactive or background / UL:8 DL:8 kbps / PS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH.

Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
 - + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
 - + UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
 - + UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
 - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
 - + UL:3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH
 - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.

Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
 - + Interactive or background / UL:64 DL:256 kbps / PS RAB
 - + UL:16.8 kbps SRBs for CCCH and SHCCH
 - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
 - + Interactive or background / UL:64 DL:384 kbps / PS RAB
 - + UL:16.8 kbps SRBs for CCCH and SHCCH
 - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 - + UL:3.4 DL:3.4 kbps SRBs for DCCH
 - + Interactive or background / UL:64 DL:2048 kbps / PS RAB
 - + UL:16.8 kbps SRBs for CCCH and SHCCH
 - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

Combinations on SCCPCH

- 1) Stand-alone SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH
 - + SRB for BCCH.
- 2a) Interactive/Background 32 kbps PS RAB
 - + Interactive/Background 32 kbps PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH
 - + SRB for BCCH.

2b) SRBs for CCCH

- + SRB for DCCH
- + SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB
 - + SRB for PCCH
 - + SRB for CCCH
 - + SRBs for DCCH
 - + SRB for BCCH.

- 3a) SRB for PCCH
 - + SRB for CCCH
 - + SRB for DCCH
 - + SRB for BCCH.
- 4) RB for CTCH
 - + SRB for CCCH
 - + SRB for BCCH.

Combinations on PRACH

- 1) SRB for CCCH
 - + SRBs for DCCH.
- 2) Interactive/Background 12.8 kbps PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH.
- 3) Interactive/Background 12.8 kbps PS RAB
 - + Interactive/Background 12.8 kbps PS RAB
 - + SRB for CCCH
 - + SRBs for DCCH.

6.11.5.3 Example of linkage between RABs and services

See clause 6.10.3.3.

6.11.5.4 Typical radio parameter sets

6.11.5.4.1 Combinations on DPCH

6.11.5.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.1.1 Uplink

6.11.5.4.1.1.1 Transport channel parameters

6.11.5.4.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.

6.11.5.4.1.1.1.2 TFCS

See clause 6.10.3.4.1.1.1.2.

6.11.5.4.1.1.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	160 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.1.2 Downlink

6.11.5.4.1.1.2.1 Transport channel parameters

6.11.5.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.1.2.1.2 TFCS

See clause 6.10.3.4.1.1.2.1.2.

6.11.5.4.1.1.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	160 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.1a Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH (multiframe)

6.11.5.4.1.1a.1 Uplink

6.11.5.4.1.1a.1.1 Transport channel parameters

6.11.5.4.1.1a.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.1.1.1.

6.11.5.4.1.1a.1.1.2 TFCS

See clause 6.10.3.4.1.1a.1.1.2.

6.11.5.4.1.1a.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	160 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60
	Note: In case the first TFC in the TFCS	is not configured, the TFCI
	code word will be 4 bit	-

6.11.5.4.1.1a.2 Downlink

6.11.5.4.1.1a.2.1 Transport channel parameters

6.11.5.4.1.1a.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1a.2.1.1.

6.11.5.4.1.1a.2.1.2 TFCS

See clause 6.10.3.4.1.1a.2.1.2.

6.11.5.4.1.1a.2.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	160 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60
	Note: In case the first TFC in the TFCS	is not configured, the TFCI
	code word will be 4 bit	-

6.11.5.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.2.1 Uplink

6.11.5.4.1.2.1.1 Transport channel parameters

6.11.5.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.2.1.1.2 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.2.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	160 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1
Note: In case the first TFCS is not configured, the TFCI code word will be 4 bit		

6.11.5.4.1.2.2 Downlink

6.11.5.4.1.2.2.1 Transport channel parameters

6.11.5.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.2.2.1.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.1.2.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	160 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1
Note: In case the first TFCS is not configured, the TFCI code word will be 4 bit		

6.11.5.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.11.5.4.1.3.1 Uplink

6.11.5.4.1.3.1.1 Transport channel parameters

6.11.5.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.1.1.1.

6.11.5.4.1.3.1.1.2 TFCS

See clause 6.10.3.4.1.3.1.1.2.

6.11.5.4.1.3.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	336 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bit
	SS / radio frame	2x 2 bit
	Puncturing Limit	0.64
Note: In case the first TFCS is not configured, the TFCI code word will be 4 bit		

6.11.5.4.1.3.2 Downlink

6.11.5.4.1.3.2.1 Transport channel parameters

6.11.5.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.2.1.1.

6.11.5.4.1.3.2.1.2 TFCS

See clause 6.10.3.4.1.3.2.1.2.

6.11.5.4.1.3.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	336 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64
Note: In case the first TFCS is not configured, the TFCI code word will be 4 bit		

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6.11.5.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4.1 Uplink

6.11.5.4.1.4.1.1 Transport channel parameters

6.11.5.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.4.1.1.3 TFCS

See clause 6.10.3.4.1.4.1.1.3.

6.11.5.4.1.4.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

6.11.5.4.1.4.2 Downlink

6.11.5.4.1.4.2.1 Transport channel parameters

6.11.5.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.4.2.1.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.1.4.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

6.11.5.4.1.4a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4a.1 Uplink

6.11.5.4.1.4a.1.1 Transport channel parameters

6.11.5.4.1.4a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.4a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.4a.1.1.3 TFCS

See clause 6.10.3.4.1.4a.1.1.3.

6.11.5.4.1.4a.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

6.11.5.4.1.4a.2 Downlink

6.11.5.4.1.4a.2.1 Transport channel parameters

6.11.5.4.1.4a.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.4a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.4a.2.1.3 TFCS

See clause 6.10.3.4.1.4a.1.2.1.3.

6.11.5.4.1.4a.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink		
	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

6.11.5.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5.1 Uplink

6.11.5.4.1.5.1.1 Transport channel parameters

6.11.5.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB See clause 6.10.3.4.1.5.1.1.1.

6.11.5.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.5.1.1.3 TFCS

See clause 6.10.3.4.1.5.1.1.3.

6.11.5.4.1.5.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.5.2 Downlink

6.11.5.4.1.5.2.1 Transport channel parameters

6.11.5.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB See clause 6.10.3.4.1.5.2.1.1.

6.11.5.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5.2.1.3 TFCS

See clause 6.10.3.4.1.5.2.1.3.

6.11.5.4.1.5.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.5a Conversational / speech / UL:10.2 6.7 5.9 4.75 DL:10.2 6.7 5.9 4.75 kbps / CS

RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5a.1 Uplink

6.11.5.4.1.5a.1.1 Transport channel parameters

6.11.5.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 6.7 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.5a.1.1.1.

6.11.5.4.1.5a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.5a.1.1.3 TFCS

See clause 6.10.3.4.1.5a.1.1.3.

6.11.5.4.1.5a.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.5a.2 Downlink

6.11.5.4.1.5a.2.1 Transport channel parameters

6.11.5.4.1.5a.2.1.1 Transport channel parameters for Conversational / speech / DL: 10.2 6.7 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.5a.2.1.1.

6.11.5.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5a.2.1.3 TFCS

See clause 6.10.3.4.1.5a.2.1.3.

6.11.5.4.1.5a.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.6.1 Uplink

6.11.5.4.1.6.1.1 Transport channel parameters

6.11.5.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB See clause 6.10.3.4.1.6.1.1.1.

6.11.5.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.6.1.1.3 TFCS

See clause 6.10.3.4.1.6.1.1.3.

6.11.5.4.1.6.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60

6.11.5.4.1.6.2 Downlink

6.11.5.4.1.6.2.1 Transport channel parameters

6.11.5.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB See clause 6.10.3.4.1.6.2.1.1.

6.11.5.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.6.2.1.3 TFCS

See clause 6.10.3.4.1.6.2.1.3.

6.11.5.4.1.6.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60

6.11.5.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7.1 Uplink

6.11.5.4.1.7.1.1 Transport channel parameters

6.11.5.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB See clause 6.10.3.4.1.7.1.1.1.

6.11.5.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7.1.1.3 TFCS

See clause 6.10.3.4.1.7.1.1.3.

6.11.5.4.1.7.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.7.2 Downlink

6.11.5.4.1.7.2.1 Transport channel parameters

6.11.5.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB See clause 6.10.3.4.1.7.2.1.1.

6.11.5.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7.2.1.3 TFCS

See clause 6.10.3.4.1.7.2.1.3.

6.11.5.4.1.7.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.7a Conversational / speech / UL:7.4 6.7 5.9 4.75 DL:7.4 6.7 5.9 4.75 / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7a.1 Uplink

6.11.5.4.1.7a.1.1 Transport channel parameters

6.11.5.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.1.1.1.

6.11.5.4.1.7a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7a.1.1.3 TFCS

See clause 6.10.3.4.1.7a.1.1.3.

6.11.5.4.1.7a.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.7a.2 Downlink

6.11.5.4.1.7a.2.1 Transport channel parameters

6.11.5.4.1.7a.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 6.7 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.7a.2.1.1.

6.11.5.4.1.7a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.7a.2.1.3 TFCS

See clause 6.10.3.4.1.7a.2.1.3.

6.11.5.4.1.7a.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.8.1 Uplink

6.11.5.4.1.8.1.1 Transport channel parameters

6.11.5.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB See clause 6.10.3.4.1.8.1.1.1.

6.11.5.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.8.1.1.3 TFCS

See clause 6.10.3.4.1.8.1.1.3.

6.11.5.4.1.8.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.8.2 Downlink

6.11.5.4.1.8.2.1 Transport channel parameters

6.11.5.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB See clause 6.10.3.4.1.8.2.1.1.

6.11.5.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.8.2.1.3 TFCS

See clause 6.10.3.4.1.8.2.1.3.

6.11.5.4.1.8.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.9.1 Uplink

6.11.5.4.1.9.1.1 Transport channel parameters

6.11.5.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB See clause 6.10.3.4.1.9.1.1.1.

6.11.5.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.9.1.1.3 TFCS

See clause 6.10.3.4.1.9.1.1.3.

6.11.5.4.1.9.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72

6.11.5.4.1.9.2 Downlink

6.11.5.4.1.9.2.1 Transport channel parameters

6.11.5.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB See clause 6.10.3.4.1.9.2.1.1.

6.11.5.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.9.2.1.3 TFCS

See clause 6.10.3.4.1.9.2.1.3.

6.11.5.4.1.9.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72

6.11.5.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.10.1 Uplink

6.11.5.4.1.10.1.1 Transport channel parameters

6.11.5.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB See clause 6.10.3.4.1.10.1.1.1.

6.11.5.4.1.10.1.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH See clause 6.10.3.4.1.1.1.1.

6.11.5.4.1.10.1.1.3 TFCS

See clause 6.10.3.4.1.10.1.1.3.

6.11.5.4.1.10.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.96

6.11.5.4.1.10.2 Downlink

6.11.5.4.1.10.2.1 Transport channel parameters

6.11.5.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB See clause 6.10.3.4.1.10.2.1.1.

6.11.5.4.1.10.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.10.2.1.3 TFCS

See clause 6.10.3.4.1.10.2.1.3.

6.11.5.4.1.10.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.96

6.11.5.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.11.1 Uplink

6.11.5.4.1.11.1.1 Transport channel parameters

6.11.5.4.1.11.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB See clause 6.10.3.4.1.11.1.1.

6.11.5.4.1.11.1.2 Transport channel parameters for UL:1.7 kbps SRBs for DCCH See clause 6.10.3.4.1.1.1.1.

6.11.5.4.1.11.1.3 TFCS

See clause 6.10.3.4.1.11.1.3.

6.11.5.4.1.11.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.11.2 Downlink

6.11.5.4.1.11.2.1 Transport channel parameters

6.11.5.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB See clause 6.10.3.4.1.11.2.1.1.

6.11.5.4.1.11.2.1.2 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

6.11.5.4.1.11.2.1.3 TFCS

See clause 6.10.3.4.1.11.2.1.3.

6.11.5.4.1.11.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.12.1 Uplink

6.11.5.4.1.12.1.1 Transport channel parameters

6.11.5.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB See clause 6.10.3.4.1.12.1.1.1.

6.11.5.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.12.1.1.3 TFCS

See clause 6.10.3.4.1.12.1.1.3.

6.11.5.4.1.12.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.12.2 Downlink

6.11.5.4.1.12.2.1 Transport channel parameters

6.11.5.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB See clause 6.10.3.4.1.12.2.1.1.

6.11.5.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.12.2.1.3 TFCS

See clause 6.10.3.4.1.12.2.1.3.

6.11.5.4.1.12.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.13.1 Uplink

6.11.5.4.1.13.1.1 Transport channel parameters

6.11.5.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.13.1.1.3 TFCS

See clause 6.10.3.4.1.13.1.1.3.

6.11.5.4.1.13.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.13.2 Downlink

6.11.5.4.1.13.2.1 Transport channel parameters

6.11.5.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.13.2.1.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

6.11.5.4.1.13.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.14.1 Uplink

6.11.5.4.1.14.1.1 Transport channel parameters

6.11.5.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB See clause 6.10.3.4.1.14.1.1.1.

6.11.5.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.14.1.1.3 TFCS

See clause 6.10.3.4.1.14.1.1.3.

6.11.5.4.1.14.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS/ radio frame	2x 2 bits
	Puncturing Limit	0.44

6.11.5.4.1.14.2 Downlink

6.11.5.4.1.14.2.1 Transport channel parameters

6.11.5.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB See clause 6.10.3.4.1.14.2.1.1.

6.11.5.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.14.2.1.3 TFCS

See clause 6.10.3.4.1.14.2.1.3.

6.11.5.4.1.14.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.44

6.11.5.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.15.1 Uplink

6.11.5.4.1.15.1.1 Transport channel parameters

6.11.5.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB See clause 6.10.3.4.1.15.1.1.1.

6.11.5.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.15.1.1.3 TFCS

See clause 6.10.3.4.1.15.1.1.3.

6.11.5.4.1.15.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.15.2 Downlink

6.11.5.4.1.15.2.1 Transport channel parameters

6.11.5.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB See clause 6.10.3.4.1.15.2.1.1.

6.11.5.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.15.2.1.3 TFCS

See clause 6.10.3.4.1.15.2.1.3.

6.11.5.4.1.15.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 3 code x 2 time slots
	Max. Number of data bits / radio	504 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.76

6.11.5.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.16.1 Uplink

6.11.5.4.1.16.1.1 Transport channel parameters

6.11.5.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB See clause 6.10.3.4.1.16.1.1.1.

6.11.5.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.16.1.1.3 TFCS

See clause 6.10.3.4.1.16.1.1.3.

6.11.5.4.1.16.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.56

6.11.5.4.1.16.2 Downlink

6.11.5.4.1.16.2.1 Transport channel parameters

6.11.5.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB See clause 6.10.3.4.1.16.2.1.1.

6.11.5.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.16.2.1.3 TFCS

See clause 6.10.3.4.1.16.2.1.3.

6.11.5.4.1.16.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.56

6.11.5.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.17.1 Uplink

6.11.5.4.1.17.1.1 Transport channel parameters

6.11.5.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.17.1.1.3 TFCS

See clause 6.10.3.4.1.17.1.1.3.

6.11.5.4.1.17.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.17.2 Downlink

6.11.5.4.1.17.2.1 Transport channel parameters

6.11.5.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.17.2.1.3 TFCS

See clause 6.10.3.4.1.17.2.1.3.

6.11.5.4.1.17.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.18 Void.

6.11.5.4.1.19 Void.

6.11.5.4.1.20 Void.

6.11.5.4.1.21 Void.

6.11.5.4.1.22 Void.

6.11.5.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for

DCCH

6.11.5.4.1.23.1 Uplink

6.11.5.4.1.23.1.1 Transport channel parameters

6.11.5.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23.1.1.3 TFCS

See clause 6.10.3.4.1.23.1.1.3.

6.11.5.4.1.23.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF 2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	1.0 (alt 0.92)

6.11.5.4.1.23.2 Downlink

6.11.5.4.1.23.2.1 Transport channel parameters

6.11.5.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.23.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23.2.1.3 TFCS

See clause 6.10.3.4.1.23.2.1.3.

6.11.5.4.1.23.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 2 codes x 2 time slots
	Max. Number of data bits/radio frame	336 bits
	TFCI code word/ radio frame	8 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.76

6.11.5.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23a.1 Uplink

6.11.5.4.1.23a.1.1 Transport channel parameters

6.11.5.4.1.23a.1.1.1 Transport channel parameters for Interactive or background / UL:8kbps / PS RAB

See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.23a.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23a.1.1.3 TFCS

See clause 6.10.3.4.1.23a.1.1.3.

6.11.5.4.1.23a.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72 (alt 0.68)

6.11.5.4.1.23a.2 Downlink

See clause 6.11.5.4.1.23.2.

6.11.5.4.1.23b Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23b.1 Uplink

6.11.5.4.1.23b.1.1 Transport channel parameters

6.11.5.4.1.23b.1.1.1 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.23b.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23b.1.1.3 TFCS

See clause 6.10.3.4.1.23b.1.1.3.

6.11.5.4.1.23b.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	688 bits
	TFCI code word / radio frame	16bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.92 alt (0.84)

6.11.5.4.1.23b.2 Downlink

6.11.5.4.1.23b.2.1 Transport channel parameters

6.11.5.4.1.23b.2.1.1 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.1.23b.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23b.2.1.3 TFCS

See clause 6.10.3.4.1.23b.2.1.3.

6.11.5.4.1.23b.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 3 code x 2 time slots
	Max. Number of data bits / radio	512 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.23c Interactive or background / UL:32 DL32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.23c.1 Uplink

6.11.5.4.1.23c.1.1 Transport channel parameters

6.11.5.4.1.23c.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.1.1.1.

6.11.5.4.1.23c.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23c.1.1.3 TFCS

See clause 6.10.3.4.1.23c.1.1.3.

6.11.5.4.1.23c.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	
	Codes and time slots/ radio frame	SF 2 x 1 code x 2 time slots	
	Max. Number of data bits/radio frame	1384 bits	
	TFCI code word/ radio frame	16 bits	
	TPC / radio frame	2 * 2 bits	
	SS / radio frame	2 * 2 bits	
	Puncturing Limit	1.0 alt (0.92)	

6.11.5.4.1.23c.2 Downlink

6.11.5.4.1.23c.2.1 Transport channel parameters

6.11.5.4.1.23c.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB

See clause 6.10.3.4.1.23c.2.1.1.

6.11.5.4.1.23c.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23c.2.1.3 TFCS

See clause 6.10.3.4.1.23c.2.1.3.

6.11.5.4.1.23c.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1.0

6.11.5.4.1.23d Interactive or background / UL:32 DL32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23d.1 Uplink

6.11.5.4.1.23d.1.1 Transport channel parameters

6.11.5.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.23d.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.23d.1.1.3 TFCS

See clause 6.10.3.4.1.23d.1.1.3.

6.11.5.4.1.23d.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	
	Codes and time slots/ radio frame	SF 2 x 1 code x 2 time slots	
	Max. Number of data bits/radio frame	1384 bits	
	TFCI code word/ radio frame	16 bits	
	TPC / radio frame	2 * 2 bits	
SS / radio frame		2 * 2 bits	
	Puncturing Limit	1.0 alt(0.92)	

6.11.5.4.1.23d.2 Downlink

6.11.5.4.1.23d.2.1 Transport channel parameters

6.11.5.4.1.23d.2.1.1 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.23d.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23d.2.1.3 TFCS

See clause 6.10.3.4.1.23d.2.1.3.

6.11.5.4.1.23d.2.2 Physical channel parameters

DPCH	Modulation	QPSK	
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots	
	Max. Number of data bits/radio frame	1384 bits	
	TFCI code word / radio frame	16 bits	
	TPC / radio frame	2x 2 bits	
	SS / radio frame	2x 2 bits	
	Puncturing Limit	1	

6.11.5.4.1.24 Void.

6.11.5.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.25.1 Uplink

See clause 6.11.5.4.1.23.1.

6.11.5.4.1.25.2 Downlink

6.11.5.4.1.25.2.1 Transport channel parameters

6.11.5.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.25.2.1.3 TFCS

See clause 6.10.3.4.1.25.2.1.3.

6.11.5.4.1.25.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit/ radio frame	0.56

6.11.5.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.26.1 Uplink

6.11.5.4.1.26.1.1 Transport channel parameters

6.11.5.4.1.26.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.26.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.26.1.1.3 TFCS

See clause 6.10.3.4.1.26.1.1.3.

6.11.5.4.1.26.1.2 Physical channel parameters

DPCH		Physical 1	Physical 2
Uplink	Modulation	QPSK	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits	2792 bits
	TFCI code word/ radio frame	16 bits	16 bits
	TPC / radio frame	2 * 2 bits	2x 2 bits
	SS / radio frame	2 * 2 bits	2x 2 bits
	Puncturing Limit	0.56 (alt 0.48)	1

6.11.5.4.1.26.2 Downlink

See clause 6.11.5.4.1.25.2.

6.11.5.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.27.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.27.2 Downlink

6.11.5.4.1.27.2.1 Transport channel parameters

6.11.5.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.27.2.1.3 TFCS

See clause 6.10.3.4.1.27.2.1.3.

6.11.5.4.1.27.2.2 Physical channel parameters

DPCH	Modulation	QPSK	
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots	
	Max. Number of data bits/radio frame	3144 bits	
	TFCI code word/ radio frame	16 bits	
	TPC / radio frame	2 * 2 bits	
	SS / radio frame	2 * 2 bits	
	Puncturing Limit	0.68	

6.11.5.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.28.1 Uplink

6.11.5.4.1.28.1.1 Transport channel parameters

6.11.5.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.28.1.1.3 TFCS

See clause 6.10.3.4.1.28.1.1.3.

6.11.5.4.1.28.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	
	Codes and time slots/ radio frame	SF1 x 1 codes x 2 time slots	
	Max. Number of data bits/radio frame	2792 bits	
	TFCI code word/ radio frame	16 bits	
	TPC/ radio frame	2*2 bits	
	SS/ radio frame	2*2 bits	
	Puncturing Limit	0.60	

6.11.5.4.1.28.2 Downlink

See clause 6.11.5.4.1.27.2.

6.11.5.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.11.5.4.1.29.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.29.2 Downlink

6.11.5.4.1.29.2.1 Transport channel parameters

6.11.5.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

See clause 6.10.3.4.1.29.2.1.1.

6.11.5.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.29.2.1.3 TFCS

See clause 6.10.3.4.1.29.2.1.3.

6.11.5.4.1.29.2.2 Physical channel parameters

DPCH	Modulation QPSK	
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots
	Max. Number of data bits/radio frame	3144 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.30.1 Uplink

6.11.5.4.1.30.1.1 Transport channel parameters

6.11.5.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

6.11.5.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

See clause 6.10.3.4.1.30.1.1.1.

6.11.5.4.1.30.1.1.3 TFCS

See clause 6.10.3.4.1.30.1.1.3.

6.11.5.4.1.30.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	(SF1 x 1 code x 2 time slots) +	SF1 x 1code x 2 time slots
		(SF2 x 1 code x 2 time slots)	
	Max. Number of data bits/radio frame	4200 bits	4188 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2* 3bits
	SS/ radio frame	2*2 bits	2* 3bits
	Puncturing Limit	0.72 (alt 0.64)	0.72 (alt 0.64)

6.11.5.4.1.30.2 Downlink

See clause 6.11.5.4.1.29.2.

6.11.5.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.31.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.31.2 Downlink

6.11.5.4.1.31.2.1 Transport channel parameters

6.11.5.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.31.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.31.2.1.3 TFCS

See clause 6.10.3.4.1.31.2.1.3.

6.11.5.4.1.31.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	5608 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.56

6.11.5.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.32.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.32.2 Downlink

6.11.5.4.1.32.2.1 Transport channel parameters

 $6.11.5.4.1.32.2.1.1 \qquad \hbox{Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB}$

See clause 6.10.3.4.1.32.2.1.1.

6.11.5.4.1.32.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.32.2.1.3 TFCS

See clause 6.10.3.4.1.32.2.1.3.

6.11.5.4.1.32.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 6 time slots	SF1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8424 bits	8412 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.64	0.64

6.11.5.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.33.1 Uplink

See clause 6.11.5.4.1.28.1.

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6.11.5.4.1.33.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.34.1 Uplink

6.11.5.4.1.34.1.1 Transport channel parameters

6.11.5.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.11.5.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.34.1.1.3 TFCS

See clause 6.10.3.4.1.34.1.1.3.

6.11.5.4.1.34.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	SF 1 x 1 code x 6 time slots	SF 1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8424 bits	8412 bits
	TFCI code word / radio frame	16 bits	24 bits
	TPC / radio frame	2 * 2 bits	2 * 3 bits
	SS / radio frame	2 * 2 bits	2 * 3 bits
	Puncturing Limit	0.64	0.64

6.11.5.4.1.34.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.35.1 Uplink

See clause 6.11.5.4.1.26.1.

6.11.5.4.1.35.2 Downlink

6.11.5.4.1.35.2.1 Transport channel parameters

6.11.5.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1704
	Max data rate, bps	2048000
	RLC header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1720
	TFS TF0, bits	0x1720
	TF1, bits	1x1720
	TF2, bits	2x1720
	TF3, bits	4x1720
	TF4, bits	8 x1720
	TF5, bits	12x1720
	TF6, bits	N/A (alt. 16x1720)
	TF7, bits	N/A (alt. 20x1720)
	TF8, bits	N/A (alt. 24x1720)
	TTI, ms	10(alt. 20)
	Coding type	No coding
	CRC, bit	24
	Max number of bits/TTI after channel coding	20928 (alt. 41856)
	Max number of bits/radio frame before rate matching	20928 (alt. 20928)
	RM attribute	130-170

6.11.5.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.35.2.1.3 TFCS

TFCS size	12 (alt.18)
TFCS	(2048 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1),
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1))

6.11.5.4.1.35.2.2 Physical channel parameters

DPCH	Modulation	8PSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 10 time slots
	Max. Number of data bits/radio frame	21084 bits
	TFCI code word/ radio frame	24 bits
	TPC/ radio frame	2*3 bits
	SS/ radio frame	2*3 bits
	Puncturing Limit	1

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n	11		4	1.36	Void.

6.11.5.4.1.37 Void.

6.11.5.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:32 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38.1 Uplink

6.11.5.4.1.38.1.1 Transport channel parameters

6.11.5.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38.1.1.4 TFCS

See clause 6.10.3.4.1.38.1.1.4.

6.11.5.4.1.38.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.72 (alt 0.68)

6.11.5.4.1.38.2 Downlink

6.11.5.4.1.38.2.1 Transport channel parameters

6.11.5.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38.2.1.4 TFCS

See clause 6.10.3.4.1.38.2.1.4.

6.11.5.4.1.38.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 3 codes x 2 time slots
	Max. Number of data bits/radio frame	504 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.44

6.11.5.4.1.38a Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:0 DL:0 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38a.1 Uplink

6.11.5.4.1.38a.1.1 Transport channel parameters

6.11.5.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB See clause 6.10.3.4.1.38a.1.1.2.

6.11.5.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38a.1.1.4 TFCS

See clause 6.10.3.4.1.38a.1.1.4.

6.11.5.4.1.38a.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

6.11.5.4.1.38a.2 Downlink

6.11.5.4.1.38a.2.1 Transport channel parameters

6.11.5.4.1.38a.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38a.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB See clause 6.10.3.4.1.38a.2.1.2.

6.11.5.4.1.38a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38a.2.1.4 TFCS

See clause 6.10.3.4.1.38a.2.1.4.

6.11.5.4.1.38a.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

+ Interactive or background / UL:8 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38b.1 Uplink

6.11.5.4.1.38b.1.1 Transport channel parameters

6.11.5.4.1.38b.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38b.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.38b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38b.1.1.4 TFCS

See clause 6.10.3.4.1.38b.1.1.4.

6.11.5.4.1.38b.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64 alt(0.60)

6.11.5.4.1.38b.2 Downlink

6.11.5.4.1.38b.2.1 Transport channel parameters

6.11.5.4.1.38b.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38b.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38b.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38b.2.1.4 TFCS

See clause 6.10.3.4.1.38b.2.1.4.

6.11.5.4.1.38b.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.2.5.1.38c

Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38c.1 Uplink

6.11.5.4.1.38c.1.1 Transport channel parameters

6.11.5.4.1.38c.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38c.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.38c.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38c.1.1.4 TFCS

See clause 6.10.3.4.1.38c.1.1.4.

6.11.5.4.1.38c.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72 (alt 0.64) for TFCS size=18
		0.80 (alt 0.72) for TFCS size=17

6.11.5.4.1.38c.2 Downlink

6.11.5.4.1.38c.2.1 Transport channel parameters

6.11.5.4.1.38c.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38c.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.38c.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38c.2.1.4 TFCS

See clause 6.10.3.4.1.38c.2.1.4.

6.11.5.4.1.38c.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72 (alt 0.64)

6.11.5.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

- + Interactive or background / UL:64 DL:64 kbps / PS RAB
- + Interactive or background / UL:64 DL:64 kbps / PS RAB
- + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38d.1 Uplink

6.11.5.4.1.38d.1.1 Transport channel parameters

6.11.5.4.1.38d.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38d.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.38d.1.1.2.

6.11.5.4.1.38d.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38d.1.1.4 TFCS

See clause 6.10.3.4.1.38d.1.1.4.

6.11.5.4.1.38d.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	(SF1 x 1 code x 2 time slots) +	SF1 x 1code x 2 time slots
		(SF2 x 1 code x 2 time slots)	
	Max. Number of data bits/radio frame	4200 bits	4188 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2* 3bits
	SS/ radio frame	2*2 bits	2* 3bits
	Puncturing Limit	0.72 (alt 0.64)	0.72 (alt 0.64)

6.11.5.4.1.38d.2 Downlink

6.11.5.4.1.38d.2.1 Transport channel parameters

6.11.5.4.1.38d.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38d.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.38d.2.1.2.

6.11.5.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38d.2.1.4 TFCS

See clause 6.10.3.4.1.38d.2.1.4.

6.11.5.4.1.38d.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots
	Max. Number of data bits/radio frame	3144 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.38e Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS

RAB

+ Interactive or background / UL:0 DL:0 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38e.1 Uplink

6.11.5.4.1.38e.1.1 Transport channel parameters

6.11.5.4.1.38e.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38e.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.1.1.2.

6.11.5.4.1.38e.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38e.1.1.4 TFCS

See clause 6.10.3.4.1.38e.1.1.4.

6.11.5.4.1.38e.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

6.11.5.4.1.38e.2 Downlink

6.11.5.4.1.38e.2.1 Transport channel parameters

6.11.5.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB

See clause 6.10.3.4.1.38a.2.1.2.

6.11.5.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38e.2.1.4 TFCS

See clause 6.10.3.4.1.38e.2.1.4.

6.11.5.4.1.38e.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.48

6.11.5.4.1.38f Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB

+ Interactive or background / UL:8 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38f.1 Uplink

6.11.5.4.1.38f.1.1 Transport channel parameters

6.11.5.4.1.38f.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38f.1.1.4 TFCS

See clause 6.10.3.4.1.38f.1.1.4.

6.11.5.4.1.38f.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64 (alt 0.60)

6.11.5.4.1.38f.2 Downlink

6.11.5.4.1.38f.2.1 Transport channel parameters

6.11.5.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38f.2.1.4 TFCS

See clause 6.10.3.4.1.38f.2.1.4.

6.11.5.4.1.38f.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.38g Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS

KAB

+ Interactive or background / UL:16 DL:16 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38g.1 Uplink

6.11.5.4.1.38g.1.1 Transport channel parameters

6.11.5.4.1.38g.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.38g.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38g.1.1.4 TFCS

See clause 6.10.3.4.1.38g.1.1.4.

6.11.5.4.1.38g.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1.0 (alt 0.96)
Note: There are 32 bit and 16 bit TFCIs for the two cases.		

6.11.5.4.1.38g.2 Downlink

6.11.5.4.1.38g.2.1 Transport channel parameters

6.11.5.4.1.38g.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.2.1.1.

6.11.5.4.1.38g.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38g.2.1.4 TFCS

See clause 6.10.3.4.1.38g.2.1.4.

6.11.5.4.1.38g.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1.0

6.11.5.4.1.38h Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS

RAB

+ Interactive or background / UL:32 DL:32 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38h.1 Uplink

6.11.5.4.1.38h.1.1 Transport channel parameters

6.11.5.4.1.38h.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38h.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.1.1.1.

6.11.5.4.1.38h.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38h.1.1.4 TFCS

See clause 6.10.3.4.1.38h.1.1.4.

6.11.5.4.1.38h.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots / radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS/ radio frame	2x 2 bits
	Puncturing Limit	0.72 (alt 0.64)

6.11.5.4.1.38h.2 Downlink

6.11.5.4.1.38h.2.1 Transport channel parameters

6.11.5.4.1.38h.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.3.4.1.23d.2.1.1.

6.11.5.4.1.38h.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38h.2.1.4 TFCS

See clause 6.10.3.4.1.38h.2.1.4.

6.11.5.4.1.38h.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72

6.11.5.4.1.38i Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38i.1 Uplink

6.11.5.4.1.38i.1.1 Transport channel parameters

6.11.5.4.1.38i.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.38i.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.38i.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38i.1.1.4 TFCS

See clause 6.10.3.4.1.38i.1.1.4.

6.11.5.4.1.38i.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	(SF1 x 1 code x 2 time slots) +	SF1 x 1code x 2 time slots
		(SF2 x 1 code x 2 time slots)	
	Max. Number of data bits/radio frame	4200 bits	4188 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2* 3bits
	SS/ radio frame	2*2 bits	2* 3bits
	Puncturing Limit	1	1

6.11.5.4.1.38i.2 Downlink

6.11.5.4.1.38i.2.1 Transport channel parameters

6.11.5.4.1.38i.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38i.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.38i.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38i.2.1.4 TFCS

See clause 6.10.3.4.1.38i.2.1.4.

6.11.5.4.1.38i.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots
	Max. Number of data bits/radio frame	3144 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	1

6.11.5.4.1.38j Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL:12.2 7.95 5.9 4.75 kbps / CS

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38j.1 Uplink

See clause 6.11.5.4.1.38i.1.

6.11.5.4.1.38j.2 Downlink

6.11.5.4.1.38j.2.1 Transport channel parameters

6.11.5.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 7.95 5.9 4.75 / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.38j.2.1.4 TFCS

See clause 6.10.3.4.1.38j.2.1.4.

6.11.5.4.1.38j.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots
	Max. Number of data bits/radio frame	3144 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.60

6.11.5.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.39.1 Uplink

See clause 6.11.5.4.1.38.1.

6.11.5.4.1.39.2 Downlink

6.11.5.4.1.39.2.1 Transport channel parameters

6.11.5.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.39.2.1.4 TFCS

See clause 6.10.3.4.1.39.2.1.4.

6.11.5.4.1.39.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 10 codes x 2 time
		slots
	Max. Number of data bits/radio frame	1736 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.56

6.11.5.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.40.1 Uplink

6.11.5.4.1.40.1.1 Transport channel parameters

See clause 6.10.3.4.1.40.1.1.

6.11.5.4.1.40.1.2 Physical channel parameters

6.11.5.4.1.40.1.2.1 Physical channel parameters (one CCTrCH case)

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.92 (alt. 0.84)

6.11.5.4.1.40.1.2.2 Physical channel parameters (two CCTrCH case)

6.11.5.4.1.40.1.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.1.2.

6.11.5.4.1.40.1.2.2.2 Physical channel parameters (Interactive or background)

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64 (alt. 0.56)

6.11.5.4.1.40.2 Downlink

6.11.5.4.1.40.2.1 Transport channel parameters

See clause 6.10.3.4.1.40.2.1.

6.11.5.4.1.40.2.2 Physical channel parameters

6.11.5.4.1.40.2.2.1 Physical channel parameters (one CCTrCH)

See Clause 6.11.5.4.1.39.2.2.

6.11.5.4.1.40.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.40.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.1.40.2.2.2.2 Physical channel parameters (Interactive or background)

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.41.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.41.2 Downlink

6.11.5.4.1.41.2.1 Transport channel parameters

See clause 6.10.3.4.1.41.2.1.

6.11.5.4.1.41.2.2 Physical channel parameters

6.11.5.4.1.41.2.2.1 Physical channel parameters (one CCTrCH case)

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots	SF 16 x 12 codes x 2 time
			slots
	Max. Number of data bits/radio frame	3144 bits	3132 bits
	TFCI code word / radio frame	16 bits	24 bits
	TPC / radio frame	2 * 2 bits	2 x 3 bits
	SS / radio frame	2 * 2 bits	2 x 3 bits
	Puncturing Limit	0.60	0.60

6.11.5.4.1.41.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.41.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.1.41.2.2.2.2 Physical channel parameters (Interactive or background)

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots	SF 16 x 11 codes x 2 time
			slots
	Max. Number of data bits/radio frame	2792 bits	2868 bits
	TFCI code word / radio frame	16 bits	24 bits
	TPC / radio frame	2 * 2 bits	2 x 3 bits
	SS / radio frame	2 * 2 bits	2 x 3 bits
	Puncturing Limit	0.64	0.64

6.11.5.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.42.1 Uplink

6.11.5.4.1.42.1.1 Transport channel parameters

See Clause 6.10.3.4.1.42.1.1.

6.11.5.4.1.42.1.2 Physical channel parameters

See Clause 6.10.3.4.1.40.1.2.1.

6.11.5.4.1.42.2 Downlink

6.11.5.4.1.42.2.1 Transport channel parameters

6.11.5.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.42.2.1.4 TFCS

See clause 6.10.3.4.1.42.2.1.4.

6.11.5.4.1.42.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF1 x 1code x 6 time slots	SF1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8408 bits	8388 bits
	TFCI code word/ radio frame	32 bits	48 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.80	0.80

6.11.5.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:384 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.43.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.43.2 Downlink

6.11.5.4.1.43.2.1 Transport channel parameters

See clause 6.10.3.4.1.43.2.1.

6.11.5.4.1.43.2.2 Physical channel parameters

6.11.5.4.1.43.2.2.1 Physical channel parameters (one CCTrCH)

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1 code x 6 time slots	SF 1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8408 bits	8388 bits
	TFCI code word / radio frame	32 bits	48 bits
	TPC / radio frame	2 * 2 bits	2 x 3 bits
	SS / radio frame	2 * 2 bits	2 x 3 bits
	Puncturing Limit	0.60	0.60

6.11.5.4.1.43.2.2.2 Physical channel parameters (two CCTrCHs)

6.11.5.4.1.43.2.2.2.1 Physical channel parameters (conversational + SRB)

See clause 6.11.5.4.1.4.2.2.

6.11.5.4.1.43.2.2.2.2 Physical channel parameters (Interactive or background)

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	(SF 1 x 1 code x 4 time slots) +	SF 1 x 1 code x 4 time slots
		(SF 16 x 10 codes x 2 time slots)	
	Max. Number of data bits/radio frame	7368 bits	8412 bits
	TFCI code word / radio frame	16 bits	24 bits
	TPC / radio frame	2 * 2 bits	2 x 3 bits
	SS / radio frame	2 * 2 bits	2 x 3 bits
	Puncturing Limit	0.56	0.64

6.11.5.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:128 DL:2048 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.44.1 Uplink

6.11.5.4.1.44.1.1 Transport channel parameters

6.11.5.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.44.1.1.4 TFCS

See clause 6.10.3.4.1.44.1.1.4.

6.11.5.4.1.44.1.2 Physical channel parameters

DPCH Uplink	Modulation	8PSK
	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	4188 bits
	TFCI code word/ radio frame	24 bits
	TPC/ radio frame	2*3 bits
	SS/ radio frame	2*3 bits
	Puncturing Limit	0.80 (alt 0.72)

6.11.5.4.1.44.2 Downlink

6.11.5.4.1.44.2.1 Transport channel parameters

6.11.5.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

See clause 6.11.5.4.1.35.2.1.1.

6.11.5.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.44.2.1.4 TFCS

TFCS size	32 (alt.50)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 kbps RAB, DCCH)=
11 03	((TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(110, 110, 110, 110, 110), (111, 110, 110, 110), (112, 111, 111, 110, 110), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0),
	(TFO, TFO, TFO, TF5, TFO), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1))
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0), (TF0, TF0, TF0, TF0, TF0, TF0, TF0, TF0,
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0), (TF1, TF0, TF0),
	(TFO, TFO, TFO, TFF, TFO), (TFT, TFO, TFO, TFF, TFO), (TF2, TFT, TFT, TFF),
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1), (TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1), (TF0, TF0, TF7, TF1), (TF1, TF0, TF1, TF1, TF2, TF1)
	(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),
	(TF0, TF0, TF0, TF8, TF1))

6.11.5.4.1.44.2.2 Physical channel parameters

DPCH	Modulation	8PSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1 code x 10 time slots
	Max. Number of data bits/radio frame	21060 bits
	TFCI code word / radio frame	48 bits
	TPC / radio frame	2 * 3 bits
	SS / radio frame	2 * 3 bits
	Puncturing Limit	1

6.11.5.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.45.1 Uplink

6.11.5.4.1.45.1.1 Transport channel parameters

6.11.5.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.45.1.1.4 TFCS

See clause 6.10.3.4.1.45.1.1.4.

6.11.5.4.1.45.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.52

6.11.5.4.1.45.2 Downlink

6.11.5.4.1.45.2.1 Transport channel parameters

6.11.5.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.45.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.45.2.1.4 TFCS

See clause 6.10.3.4.1.45.2.1.4.

6.11.5.4.1.45.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 2 time slots
	Max. Number of data bits/radio frame	1560 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.56

6.11.5.4.1.46	Void
6.11.5.4.1.47	Void

6.11.5.4.1.48 Void

6.11.5.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49.1 Uplink

6.11.5.4.1.49.1.1 Transport channel parameters

6.11.5.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49.1.1.4 TFCS

See clause 6.10.3.4.1.49.1.1.4.

6.11.5.4.1.49.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.88

6.11.5.4.1.49.2 Downlink

6.11.5.4.1.49.2.1 Transport channel parameters

6.11.5.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49.2.1.4.

6.11.5.4.1.49.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 11 codes x 2 time
		slots
	Max. Number of data bits/radio frame	1912 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.60

6.11.5.4.1.49a Conversational / speech / UL: 12.2 7.95 5.9 4.75 DL: 12.2 7.95 5.9 4.75 kbps / CS

RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49a.1 Uplink

6.11.5.4.1.49a.1.1 Transport channel parameters

6.11.5.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.11.5.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49a.1.1.4 TFCS

See clause 6.10.3.4.1.49a.1.1.4.

6.11.5.4.1.49a.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.88

6.11.5.4.1.49a.2 Downlink

6.11.5.4.1.49a.2.1 Transport channel parameters

6.11.5.4.1.49a.2.1.1 Transport channel parameters for Conversational / speech / DL: 12.2 7.95 5.9 4.75 kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.11.5.4.1.49a.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49a.2.1.4.

6.11.5.4.1.49a.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 11 codes x 2 time
		slots
	Max. Number of data bits/radio frame	1912 bits
TFCI code word/ radio frame		16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.60

6.11.5.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.50.1 Uplink

6.11.5.4.1.50.1.1 Transport channel parameters

6.11.5.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.50.1.1.3 TFCS

See clause 6.10.3.4.1.50.1.1.3.

6.11.5.4.1.50.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.50.2 Downlink

6.11.5.4.1.50.2.1 Transport channel parameters

6.11.5.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.50.2.1.3 TFCS

See clause 6.10.3.4.1.50.2.1.3.

6.11.5.4.1.50.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 15 codes x 2 time
		slots
	Max. Number of data bits/radio frame	2616 bits
TFCI code word/ radio frame		16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.48

6.11.5.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51.1 Uplink

6.11.5.4.1.51.1.1 Transport channel parameters

6.11.5.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

6.11.5.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51.1.1.4 TFCS

See clause 6.10.3.4.1.51.1.1.4.

6.11.5.4.1.51.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.52 (alt. 0.48)

6.11.5.4.1.51.2 Downlink

6.11.5.4.1.51.2.1 Transport channel parameters

6.11.5.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

6.11.5.4.1.51.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
TFCI code word/ radio frame		16 bits
TPC/ radio frame		2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.52

6.11.5.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:8 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51a.1 Uplink

6.11.5.4.1.51a.1.1 Transport channel parameters

6.11.5.4.1.51a.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51a.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.51a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51a.1.1.4 TFCS

See clause 6.10.3.4.1.51a.1.1.4.

6.11.5.4.1.51a.1.2 Physical channel parameters

DPCH		Physical 1	Physical 2
Uplink	Modulation	QPSK	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits	2792 bits
	TFCI code word/ radio frame	16 bits	16 bits
	TPC / radio frame	2 * 2 bits	2x 2 bits
	SS / radio frame	2 * 2 bits	2x 2 bits
	Puncturing Limit	0.40	0.84

6.11.5.4.1.51a.2 Downlink

6.11.5.4.1.51a.2.1 Transport channel parameters

6.11.5.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51a.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51a.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

6.11.5.4.1.51a.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
TFCI code word/ radio frame		16 bits
TPC/ radio frame		2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.84

6.11.5.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:16 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51b.1 Uplink

6.11.5.4.1.51b.1.1 Transport channel parameters

6.11.5.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51b.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1.

6.11.5.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51b.1.1.4 TFCS

See clause 6.10.3.4.1.51b.1.1.4.

6.11.5.4.1.51b.1.2 Physical channel parameters

DPCH		Physical 1	Physical 2
Uplink	Modulation	QPSK	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits	2792 bits
	TFCI code word/ radio frame	16 bits	16 bits
	TPC / radio frame	2 * 2 bits	2x 2 bits
	SS / radio frame	2 * 2 bits	2x 2 bits
	Puncturing Limit	0.40	0.76

6.11.5.4.1.51b.2 Downlink

See clause 6.11.5.4.1.51.2.

6.11.5.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.52.1 Uplink

See clause 6.11.5.4.1.51.1.

6.11.5.4.1.52.2 Downlink

6.11.5.4.1.52.2.1 Transport channel parameters

6.11.5.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.52.2.1.4 TFCS

See clause 6.10.3.4.1.52.2.1.4.

6.11.5.4.1.52.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 12 codes x 4 time
		slots
	Max. Number of data bits/radio frame	4200 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.52

6.11.5.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:128 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.53.1 Uplink

6.11.5.4.1.53.1.1 Transport channel parameters

6.11.5.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.53.1.1.4 TFCS

See clause 6.10.3.4.1.53.1.1.4.

6.11.5.4.1.53.1.2 Physical channel parameters

DPCH Uplink	Modulation	odulation QPSK	
	Codes and time slots/ radio frame	SF1 x 1 code x 4 time slots	SF1 x 1code x 2 time slots
	Max. Number of data bits/radio frame	5608 bits	4188 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.72 (alt 0.68)	0.52 (alt 0.48)

6.11.5.4.1.53.2 Downlink

See clause 6.11.5.4.1.52.2.

6.11.5.4.1.54

Void.

6.11.5.4.1.55

Void.

6.11.5.4.1.56 Interactive or background / UL:8 DL:8 kbps / PS RAB + Interactive or background /

UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.56.1 Uplink

6.11.5.4.1.56.1.1 Transport channel parameters

6.11.5.4.1.56.1.1.1 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB +

UL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.1.1.1.

6.11.5.4.1.56.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.56.1.1.3 TFCS

See clause 6.10.3.4.1.56.1.1.3.

6.11.5.4.1.56.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS/ radio frame	2x 2 bits
	Puncturing Limit	0.84 (alt 0.76)

6.11.5.4.1.56.2 Downlink

6.11.5.4.1.56.2.1 Transport channel parameters

6.11.5.4.1.56.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB + DL:8 kbps / PS RAB

See clause 6.10.3.4.1.56.2.1.1.

6.11.5.4.1.56.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.56.2.1.3 TFCS

See clause 6.10.3.4.1.56.2.1.3.

6.11.5.4.1.56.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.84

6.11.5.4.1.57 Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 bps SRBs for DCCH

6.11.5.4.1.57.1 Uplink

6.11.5.4.1.57.1.1 Transport channel parameters

6.11.5.4.1.57.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB + UL:64 kbps / PS RAB

See clause 6.10.3.4.1.38d.1.1.2.

6.11.5.4.1.57.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.57.1.1.3 TFCS

See clause 6.11.5.4.1.57.1.1.3.

6.11.5.4.1.57.1.2 Physical channel parameters

DDOLL		Discosional 4
DPCH		Physical 1
Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.52 (alt. 0.44)

6.11.5.4.1.57.2 Downlink

6.11.5.4.1.57.2.1 Transport channel parameters

6.11.5.4.1.57.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB + DL:64 kbps / PS RAB

See clause 6.10.3.4.1.57.2.1.1.

6.11.5.4.1.57.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.57.2.1.3 TFCS

See clause 6.10.3.4.1.57.2.1.3.

6.11.5.4.1.57.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.52

6.11.5.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.58.1 Uplink

6.11.5.4.1.58.1.1 Transport channel parameters

6.11.5.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

See 6.10.3.4.1.58.1.1.1.

6.11.5.4.1.58.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.58.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.58.1.1.4 TFCS

See clause 6.10.3.4.1.58.1.1.4.

6.11.5.1.58.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60 (alt 0.56)

6.11.5.4.1.58.2 Downlink

6.11.5.4.1.58.2.1 Transport channel parameters

6.11.5.4.1.58.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / PS RAB See clause 6.10.3.4.1.58.2.1.1.

6.10.3.4.1.58.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.58.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.58.2.1.4 TFCS

See clause 6.10.3.4.1.58.2.1.4.

6.11.5.4.1.58.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.44

6.11.5.4.1.59 Reserved for future use
6.11.5.4.1.60 Reserved for future use
6.11.5.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.11.5.4.1.61.1 Uplink

6.11.5.4.1.61.1.1 Transport channel parameters

6.11.5.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB See clause 6.10.3.4.1.61.1.1.1.

6.10.3.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.11.5.4.1.61.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.61.1.1.4 TFCS

See clause 6.10.3.4.1.61.1.1.4.

6.11.5.4.1.61.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.84 (alt 0.80)

6.11.5.4.1.61.2 Downlink

6.11.5.4.1.61.2.1 Transport channel parameters

6.11.5.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB See clause 6.10.3.4.1.61.2.1.1.

6.11.5.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.61.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.61.2.1.4 TFCS

See clause 6.10.3.4.1.61.2.1.4.

6.11.5.4.1.61.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.84

6.11.5.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.11.5.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.1.1 Uplink

6.11.5.4.2.1.1.1 Transport channel parameters

6.11.5.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.2.1.1.1.2 Transport channel parameters for UL: 3.4 Kbps SRBs for DCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.2.

6.11.5.4.2.1.1.1.3 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.3.

6.11.5.4.2.1.1.1.4 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRBs for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.4.

6.11.5.4.2.1.1.2 Physical channel parameters

6.11.5.4.2.1.1.2.1 Physical channel parameters for PUSCH

PUSCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.88

6.11.5.4.2.1.1.2.2 Physical channel parameter for PRACH.

See clause 6.11.5.4.5.1.2.

6.11.5.4.2.1.2 Downlink

6.11.5.4.2.1.2.1 Transport channel parameters

6.11.5.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.2.1.2.Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.1.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.3.

6.11.5.4.2.1.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

6.11.5.4.2.1.2.1.4.1 FACH transport channel configuration without DTCH

Higher	RAB/sigr	nalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6
layer	User of F	Radio	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	RRC
	Bearer					High prio	Low prio		
RLC	Logical c	hannel	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH
	type								
	RLC mod	de	UM	UM	AM	AM	AM	UM	TM
	Payload	sizes, bit	160	136 or	128	128	128	160	168
				120*					
	Max data	rate, bps	32000 (alt.	27200 or	25600	25600	25600	32000	33600
			16000)	24000 (alt.	(alt.12800)	(alt.12800)	(alt.12800)	(alt.16000)	(alt.16000)
				13600					
				or12000)					
	RLC hea	der, bit	8	8	16	16	16	8	0
MAC	MAC hea	ader, bit	3	27 or 43	27	27	27	3	3
	MAC mu	ltiplexing	7 logical channel multiplexing						
Layer 1	TrCH typ	е				FACH			
	TB sizes	, bit	171	171	171	171	171	171	171
	TFS	TF0, bits	0x171						
		TF1, bits		1x171 2x171					
		TF2, bits							
		TF3, bits	3x171(alt. N/A)						
		TF4, bits				x171(alt. N/A			
		TF5, bits				,			

TF	-6, bits						
TTI, ms		20					
Coding type		CC 1/2					
CRC, bit		16					
Max number bits/TTI after		1528 (alt.764)	1528 (alt.764)	1528 (alt.764)	1528 (alt.764)	1528 (alt.764)	1528 (alt.764)
channel codi	ng ` ´	,	, ,	,	,	,	,

^{*} MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

6.11.5.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

Higher	RAB/sig	nalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6
layer	User of	Radio	Interactive/	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	RRC
	Bearer		Background				High prio	Low prio		
			RAB							
RLC	_	channel	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH
	type			1 15 4		A N 4	0.04		1.18.4	T. 4
	RLC mo		AM	UM	UM	AM	AM	AM	UM	TM
		d sizes, bit	320	160	136 or 120 (note)	128	128	128	160	168
	Max dat	ta rate, bps	32000 (alt.	32000	27200 or	25600	25600	25600	32000	33600
			16000)	(alt.	24000	(alt.	(alt.	(alt.	(alt.	(alt.
				16000)	(alt.	12800)	12800)	12800)	16000)	16800)
					13600 or 12000)					
	AMD/UI	MD/TrD	16	8	8	16	16	16	8	0
		ader, bit	10			10	10			
MAC	MAC he	eader, bit	27	3	27 or 43	27	27	27	3	3
	MAC m	ultiplexing			8 logid	cal channe	l multiplexin	ng		
Layer 1	TrCH ty					FAC				
	TB size					171, 3				
	TFS	TF0, bits				0x17				
		TF1, bits				1x17				
		TF2, bits				2x17				
		TF3, bits				1x36				
		TF4, bits				3x171 (a				
		TF5, bits				4x171 (al				
		TF6, bits				2x363 (al				
	TTI, ms					20				
	Coding		CC ½							
	CRC, bi					16				
	Max nui					1532(alt	. 766)			
I	channel coding									

^{*} MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

6.11.5.4.2.1.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

6.11.5.4.2.1.2.2 Physical channel parameters

6.11.5.4.2.1.2.2.1 Physical channel parameters for PDSCH

PDSCH	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	SF16 x 11 codes x 6 time	SF1 x 1 code x 4 time slots
		slots	
	Max. Number of data bits/radio frame	5784 bits	6511 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.60	0.68

6.11.5.4.2.1.2.2.2 Physical channel parameters for SCCPCH

6.11.3.4.2.1.2.2.2.1 Physical channel parameters for SCCPCH without DTCH

S-CCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF16 x 5 codes x 2 time
		slots(alt. SF16 x 2 codes x 2
		time slot)
	Max. Number of data bits/radio frame	864 bits (alt. 344 bits)
	TFCI code word/ radio frame	16 bits
	TP(alt. 8 bits)C/ radio frame	0 bits
	SS/ radio frame	0 bits
	Puncturing Limit	1(alt. 0.88)

6.11.3.4.2.1.2.2.2.2 Physical channel parameters for SCCPCH with DTCH

S-CCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF16 x 5 codes x 2 time slots
		(alt. SF16 x 2 codes x 2 time
		slot)
	Max. Number of data bits/radio frame	864 bits (alt. 336 bits)
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	0 bits
	SS/ radio frame	0 bits
	Puncturing Limit	1(alt. 0.84)

6.11.5.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.2.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.2.2 Downlink

6.11.5.4.2.2.2.1 Transport channel parameters

6.11.5.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.1.1.

6.11.5.4.2.2.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.2.2.1.3 TFCS for DSCH

See clause 6.10.3.4.2.2.2.1.3.

6.11.5.4.2.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.2.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.2.2 Physical channel parameters

6.11.5.4.2.2.2.1 Physical channel parameters for PDSCH

PDSCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 1 x 1 code x 6 time slots
	Max. Number of data bits/radio frame	8424 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.60

6.11.5.4.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.11.5.4.2.1.2.2.2.6.11.5.4.2.3 Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.3.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.3.2 Downlink

6.11.5.4.2.3.2.1 Transport channel parameters

6.11.5.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher Layer	RAB/Signa	alling RB	RAB	SRB#5
RLC	Logical ch	annel type	DTCH	SHCCH
	RLC mode		AM	UM
	Payload si	izes, bit	1704	160
	Max data ı	rate, bps	2048000	16000
	RLC head	er, bit	16	8
MAC	MAC head	der, bit	0	0
	MAC multi	plexing	N/A	N/A
Layer 1	TrCH type		DSCH	DSCH
	TB sizes, I		1720	168
	TFS	TF0, bits	0x1720	0x168
		TF1, bits	1x1720	1x168
		TF2, bits	2x1720	N/A
		TF3, bits	4x1720	N/A
		TF4, bits	8x1720	N/A
		TF5, bits	12x1720	N/A
		TF6, bits	N/A (alt. 16x1720)	N/A
		TF7, bits	N/A (alt. 20x1720)	N/A
		TF8, bits	N/A (alt. 24x1720)	N/A
	TTI, ms		10 (alt. 20)	10
	Coding typ	oe e	No Coding	CC 1/2
	CRC, bit		24	16
	Max numb	per of bits/TTI after channel coding	20928 (alt. 41856)	384
		Max number of bits/radio frame e matching	20928 (alt. 20928)	384
	RM attribu		135-175	180-220

6.11.5.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.2.3.2.1.3 TFCS for DSCH

TFCS size	22 (alt.34)
TFCS	(2048 kbps RAB, SHCCH, SRBs for DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF5,
	TF0, TF0),
	(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5,
	TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),
	(alt. (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),
	(TF5, TF0, TF0), (TF6, TF0, TF0), (TF7, TF0, TF0), (TF8, TF0, TF0),
	(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF5,
	TF1, TF0), (TF6, TF1, TF0), (TF7, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1), (TF5,
	TF0, TF1), (TF6, TF0, TF1), (TF7, TF0, TF1), (TF8, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1), (TF5,
	TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1))

For better understanding of the TFCS please note that the following combinations are not included in the table above: (TF5, TF1, TF0), (TF5, TF1, TF1), (TF8, TF1, TF0), (TF8, TF1, TF1)

6.11.5.4.2.3.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.4.

6.11.5.4.2.3.2.1.5 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.5.

6.11.5.4.2.3.2.2 Physical channel parameters

6.11.5.4.2.3.2.2.1 Physical channel parameters for PDSCH

PDSCH	Modulation	8PSK
	Codes and time slots/ radio frame	SF1 x 1 code x 10 time slots
	Max. Number of data bits/radio frame	21084 bits
	TFCI code word/ radio frame	24 bits
	TPC/ radio frame	2*3 bits
	SS/ radio frame	2*3 bits
	Puncturing Limit	1

6.11.5.4.2.3.2.2.2 Physical channel parameters for S-CCPCH

See clause 6.11.5.4.2.1.2.2.2.

6.11.5.4.3	Combinations on	DD6CH	SCCBCH DBCH	. PUSCH and PRACH
0.11.5.4.5	COHIDHIAUOHS OF	I FUSUH.	SUCFUE, DEUE	. FUSUN AND FNAUN

6.11.5.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.1.1 Uplink

6.11.5.4.3.1.1.1 Transport channel parameters

6.11.5.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.11.5.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

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6.11.5.4.3.1.1.1.5 TFCS for USCH

See clause 6.10.3.4.3.1.1.1.5.

6.11.5.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.3.1.1.1.6.

6.11.5.4.3.1.1.2 Physical channel parameters

Physical channel parameters for uplink DPCH see clause 6.11.5.4.1.4.1.2.

Physical channel parameters for PUSCH see clause 6.11.5.4.2.1.1.2.

Physical channel parameters for PRACH see clause 6.11.5.4.2.1.1.2.

6.11.5.4.3.1.2 Downlink

6.11.5.4.3.1.2.1 Transport channel parameters

6.11.5.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.3.1.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.1.2.1.5.

6.11.5.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

Higher	RAB/Sigi	nalling RB	SRB#0	SRB#5	SRB#6	
layer	User of F	Radio Bearer	RRC	RRC	RRC	
	Logical channel type		CCCH	SHCCH	BCCH	
	RLC mod	de	UM	UM	TM	
RLC	Payload	sizes, bit	160	160	168	
	Max data	rate, bps	32000	32000	33600	
	RLC hea	der, bit	8	8	0	
MAC	MAC hea	nder, bit		3		
IVIAC	MAC mu	Itiplexing	3 lo	gical channel multiplex	king	
	TrCH typ	е	FACH			
	TB sizes, bit		171			
	TFS	TF0, bits	0x171			
		TF1, bits	1x171			
		TF2, bits	2x171			
		TF3, bits	3x171			
Layer 1		TF4, bits	4x171			
Layon	TTI, ms		20			
	Coding ty	/pe	CC 1/2			
	CRC, bit		16			
	Max number of bits/TTI after		1528			
	channel of					
	Max number of bits/radio frame			764		
	before ra	te matching				

6.11.5.4.3.1.2.1.7 TFCS for FACH

TFCS size	5
TFCS	FACH = TF0, TF1,TF2,TF3,TF4

6.11.5.4.3.1.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.1.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.2.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.2.2 Downlink

6.11.5.4.3.2.2.1 Transport channel parameters

6.11.5.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.1.4.1.4.2.1.1.

6.11.5.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.11.5.4.3.2.2.1.5 TFCS for DSCH

See clause 6.10.3.4.3.2.2.1.5.

6.11.5.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.2.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.2.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.2.2.2.

Physical channel parameters for downlink for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.3.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.3.2 Downlink

6.11.5.4.3.3.2.1 Transport channel parameters

6.11.5.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.5.4.2.3.2.1.2.

6.11.5.4.3.3.2.1.5 TFCS for DSCH

See clause 6.11.5.4.2.3.2.1.4.

6.11.5.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.3.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.3.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.11.5.4.2.3.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.4 Combinations on SCCPCH

6.11.5.4.4.1 Stand-alone signalling RB for PCCH

6.11.5.4.4.1.1 Transport channel parameters

6.11.5.4.4.1.1.1 Transport channel parameter of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.1.1.2 TFCS

See clause 6.10.3.4.4.1.1.2.

6.11.5.4.4.1.2 Physical channel parameters

S-CCPCH	Modulation	QPSK			
	Codes and time slots/ radio frame	SF16 x 2 codes x 2 time slots			
		(alt. SF16 x 1 codes x 2 time			
		slots)			
	Max. Number of data bits/radio frame	344 bits (alt. 168 bits)			
	TFCI code word/ radio frame	8 bits			
	TPC/ radio frame	0 bits			
	SS/ radio frame	0 bits			
	Puncturing Limit	1 (alt. 0.84)			
Note alt Punc	Note: alt Puncturing Limit applies when alt navload sizes and alt codes and time slots				

Note: alt. Puncturing Limit applies when alt. payload sizes and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2.1 Transport channel parameters

6.11.5.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

See clause 6.10.3.4.4.2.1.1.

6.11.5.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

Higher	RAB/signa	lling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	
layer	User of Ra	dio Bearer	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	RRC	
RLC	Logical cha	annel type	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	
	RLC mode		UM	UM	AM	AM	AM	TM	
	Payload siz	zes, bit	<u>160</u>	13 <u>6</u> or 1 <u>20</u>	12 <u>8</u>	<u>128</u>	<u>128</u>	<u>168</u>	
	Max data r	Max data rate, bps		27200 or 2400 (alt. 24000 or 12000)	25600 (alt. 12800)	25600 (alt. 12800)	25600 (alt. 12800)	33600 (alt. 16800)	
	RLC heade	er, bit	8	8	16	16	16	0	
MAC	MAC header, bit		3	27 or 43	27	27	27	3	
IVIAC	MAC multi	plexing	6 logical channel multiplexing						
Layer 1	TrCH type	TrCH type		FACH					
	TB sizes, b	oit	171						
		TF0, bits	0x171						
		TF1, bits	1x171						
	TFS	TF2, bits	2x171						
		TF3, bits	3x171 (alt. N/A)						
		TF4, bits	4x171 (alt. N/A)						
	TTI, ms		20						
	Coding typ	е		CC 1/2					
	CRC, bit	() ' ()	16						
	Max number before rate	er of bits/TTI matching	1528 (alt. 764)						
		er of bits/radio re rate matching		764 (alt. 382)					
	RM attribut	te			200	-240			

^{*} MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

6.11.5.4.4.2.1.3 TFCS

See clause 6.10.3.4.4.2.1.3.

6.11.5.4.4.2.2 Physical channel parameters

SCCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 16 x 9 codes x 2 time slots
		(alt. SF16 x 4 codes x 2 time
		slots)
	Max. Number of data bits/radio frame	1568 bits (alt. 688 bits)
	TFCI code word / radio frame	16 bits
	TPC / radio frame	0 bits
	SS / radio frame	0 bits
	Puncturing Limit	0.52 (alt. 0.48)
Motor off Dun	aturing Limit applies when alt TECC and	alt and an and time alote / radio

Note: alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.2a Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2a.1 Transport channel parameters

6.11.5.4.4.2a.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB

See clause 6.10.3.4.2a.1.1.

6.11.5.4.4.2a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2a.1.3 TFCS

See clause 6.10.3.4.4.2a.1.3.

6.11.5.4.4.2a.2 Physical channel parameters

See clause 6.11.5.4.4.2.2.

6.11.5.4.4.2b SRBs for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.2b.1 Transport channel parameters

6.11.5.4.4.2b.1.1 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.2b.1.2 TFCS

See clause 6.10.3.4.4.2b.1.2.

6.10.3.4.4.2b.2 Physical channel parameters

SCCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 16 x 4 codes x 2 time slots (alt. SF16 x 2 codes x 2 time
		slots)
	Max. Number of data bits/radio frame	688 bits (alt. 344 bits)
	TFCI code word / radio frame	16 bits (alt. 8 bits)
	TPC / radio frame	0 bits
	SS / radio frame	0 bits
	Puncturing Limit	0.88

Note: alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3.1 Transport channel parameters

6.11.5.4.4.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.1.

6.11.5.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.3.1.4 TFCS

See clause 6.10.3.4.4.3.1.4.

6.11.5.4.4.3.2 Physical channel parameters

S-CCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF16 x 10 codes x 2 time
		slots (alt. SF16 x 6 codes x 2
		time slots)
	Max. Number of data bits/radio frame	1744 bits (alt. 1040 bits)
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	0 bits
	SS/ radio frame	0 bits
	Puncturing Limit	0.48 (alt. 0.52)

Note: alt. Puncturing Limit applies when alt. TFCS and alt. codes and time slots / radio frame are both configured.

6.11.5.4.4.3a SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3a.1 Transport channel parameters

6.11.5.4.4.3a.1.1 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.1.

6.11.5.4.4.3a.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

6.11.5.4.4.3a.1.3 TFCS

See clause 6.10.3.4.4.3a.1.3.

6.11.5.4.4.3a.2 Physical channel parameters

Modulation	QPSK		
Codes and time slots/ radio frame	SF 16 x 4 codes x 2 time slots		
	(alt. SF16 x 2 codes x 2 time		
	slots)		
Max. Number of data bits/radio frame	688 bits (alt. 336 bits)		
TFCI code word / radio frame	16 bits		
TPC / radio frame	0 bits		
SS / radio frame	0 bits		
Puncturing Limit	0.60 (alt. 0.52)		
	Codes and time slots/ radio frame Max. Number of data bits/radio frame TFCI code word / radio frame TPC / radio frame SS / radio frame		

Note: Alt. applies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured.

6.11.5.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.11.5.4.4.4.1 Transport channel parameters

6.11.5.4.4.4.1.1 Transport channel parameters of RB for CTCH

See clause 6.10.3.4.4.4.1.1.

6.11.5.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

Higher layer	RAB/signalling	RB	SRB#0	SRB#5	
	User of Radio E	Bearer	RRC	RRC	
RLC	Logical channe	type	CCCH	BCCH	
	RLC mode		UM	TM	
	Payload sizes,	bit	160	168	
	Max data rate,	ops	16000	16800	
	AMD/UMD/TrD	PDU header, bit	8	0	
MAC	MAC header, b	it	3	3	
IVIAC	MAC multiplexi	ng	2 logical channel	multiplexing	
Layer 1	TrCH type		FACH		
	TB sizes, bit		171		
		TF0, bits	0x171		
	TFS	TF1, bits	1x171		
		TF2, bits	2x171		
	TTI, ms		20		
	Coding type		CC 1/3		
	CRC, bit		16		
	Max number of	bits/TTI before rate	1146		
	matching				
		bits/radio frame	573		
	before rate mat	ching			
	RM attribute		200-240		

6.11.5.4.4.4.1.3 TFCS

See clause 6.10.3.4.4.4.1.3.

6.11.5.4.4.4.2 Physical channel parameters

SCCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 16 x 4 codes x 2 time slots
	Max. Number of data bits/radio frame	688 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	0 bits
	SS / radio frame	0 bits
	Puncturing Limit	0.52

6.11.5.4.5 Combinations on PRACH

6.11.5.4.5.1 SRB for CCCH + SRBs for DCCH

6.11.5.4.5.1.1 Transport channel parameters

6.11.5.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRBs for DCCH

See clause 6.10.3.4.5.1.1.1.

6.11.5.4.5.1.1.2 TFCS

See clause 6.10.3.4.5.1.1.2.

6.11.5.4.5.1.2 Physical channel parameters

PRACH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	352 bits
	TPC / radio frame	0 bits
	SS / radio frame	0 bits
	Puncturing Limit	0.88

6.11.5.4.5.2 Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH

6.11.5.4.5.2.1 Transport channel parameters

6.11.5.4.5.2.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High priority	NAS_DT Low priority
RLC	Logical channel type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH
	RLC mode	AM	TM	UM	AM	AM	AM
	Payload sizes, bit	128	168	136	128	128	128
	Max data rate, bps	12800	16800	13600	12800	12800	12800
	AMD/UMD/TrD PDU header, bit	16	0	8	16	16	16

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 priority	NAS_DT Low priority
MAC	MAC header, bit	26	2	26	26	26	26
	MAC multiplexing			6 logical chann	el multiplexing		
Layer 1	TrCH type			RAG	CH		
	TB sizes, bit			17	0		
	TFS TF0, bits			1x1	70		
	TTI, ms			10)		
	Coding type			CC	1/2		
	CRC, bit			16	6		
	Max number of bits/TTI after channel coding	388					
	Max number of bits/ Radio frame before rate matching	388					

6.11.5.4.5.2.1.2 TFCS

TFCS size	1
TFCS	12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0)

6.11.5.4.5.2.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

6.11.5.4.5.3 Interactive/Background 12.8 kbps PS RAB + Interactive/Background 12.8 kbps PS RAB + SRB for CCCH + SRB for DCCH

6.11.5.4.5.3.1 Transport channel parameters

6.11.5.4.5.3.1.1 Transport channel parameters for Interactive or background / 12.8 kbps / PS RAB + Interactive or background / 12.8 kbps / PS RAB + SRB for CCCH + SRBs for DCCH

Higher	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background RAB	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
RLC	Logical channel	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH
	type							
	RLC mode	AM	AM	TM	UM	AM	AM	AM
	Payload sizes, bit	128	128	168	136	128	128	128
	Max data rate, bps	12800	12800	16800	13600	12800	12800	12800
	AMD/UMD/TrD	16	16	0	8	16	16	16
	PDU header, bit							

Higher	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background	Interactive/ Background	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
	200.0.	RAB	RAB					-
MAC	MAC header, bit	26	26	2	26	26	26	26
	MAC multiplexing			7 logical	channel mult	iplexing		
Layer	TrCH type				RACH			
1	TB sizes, bit				170			
	TFS TF0, bits		1x170					
	TTI, ms	10						
	Coding type	CC ½						
	CRC, bit	16						
	Max number of				388			
	bits/TTI after							
	channel coding							
	Max number of				388			
	bits/ Radio frame							
	before rate							
	matching							

6.11.5.4.5.3.1.2 TFCS

TFCS size	1
TFCS	12.8 kbps PS RAB + 12.8 kbps PS RAB + SRB for CCCH + SRBs for DCCH = (TF0)

6.11.5.4.5.3.2 Physical channel parameters

See clause 6.11.5.4.5.1.2.

7 Generic setup procedures

7.1 Basic Generic Procedures

7.1.1 UE Test States for Basic Generic Procedures

This clause describes a set of procedures for use by test cases in TS 34.123-1. Describing these procedures in a generic manner allows their use in many test cases. By using these procedures, test case descriptions need not detail signalling that is not relevant to its purpose or understanding.

The procedures are based upon default values that are adapted to the most common usage. Test cases that require values different from the default will, when specifying the Basic Generic Procedure, also specify those parameters that are modified.

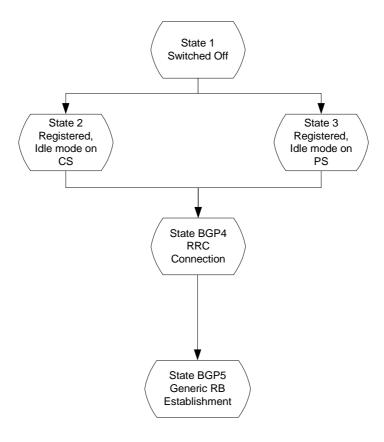


Figure 7.1.1: UE Test States for Basic Generic Procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.1.1.

Table 7.1.1: The UE states

		RRC	CC	MM	SM	GMM
State 1	Power OFF		null	detached	inactive	detached
State 2	CS Registered Idle Mode	idle	null	idle	inactive	detached
State 3	PS Registered Idle Mode	idle	null	detached	inactive	idle
State BGP4	RRC Connection	connected	null	as previous	inactive	as previous
State BGP5	Generic RB Establishment	connected	null	as previous	inactive	as previous

7.1.2 Mobile terminated establishment of Radio Resource Connection

7.1.2.1 Initial conditions

System Simulator:

The system simulator will start from the default idle state. Parameters will the default parameters for a single cell, unless otherwise specified in the test case.

User Equipment:

Unless otherwise specified in the test case, the UE will be in the following state:

- Default test operating conditions.

- The UE shall have followed the generic registration procedure for CS or PS operations, and will be in Idle Mode, Camped-on (State 2 or State 3).

7.1.2.2 Definition of system information messages

The default system information messages are used.

7.1.2.3 Procedure

- The SS sends a PAGING TYPE 1 message to the UE on the appropriate paging block, and with the IE "Paging record" containing the TMSI or P-TMSI of the UUT.
- The SS receives an RRC CONNECTION REQUEST message from the UE.
- On receipt of the RRC CONNECTION REQUEST the SS shall transmit a RRC CONNECTION SETUP message to the UE. The SS shall wait for the receipt of an RRC CONNECTION SETUP COMPLETE message from the UE.
- On receipt of an RRC CONNECTION SETUP COMPLETE message, the procedure is complete.

Step	Direction	Message	Comments
	UE SS		
1	←	SYSTEM INFORMATION (BCCH)	Default SI messages
2	←	PAGING TYPE 1 (PCCH)	Sent on appropriate cycle
3	\rightarrow	RRC CONNECTION REQUEST (CCCH)	RRC
4	←	RRC CONNECTION SETUP (CCCH)	RRC
5	\rightarrow	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC

7.1.2.4 Specific message contents

7.1.2.4.1 PAGING TYPE 1

This message is sent from the SS to the UE, using the TM RLC SAP, on the PCCH logical channel:

	Value/Remark						
Message Type	Vlessage Type						
UE Information elem	nents						
Paging record list	Paging record	CN originator	Paging cause	Terminating Speech Call (note)			
			CN domain identity	CS domain (note)			
			UE Identity	TMSI (GSM-MAP) As specified during Registration procedure			
Other information el	ements						
BCCH modification in	fo	•		omit			
	entity and UE Identi			Otherwise, the Paging cause, CN equirements of the following			

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	Maximum number	er of AM entities	As declared in UE ICS
Establishment cause			As appropriate
Protocol error indicator			FALSE
>UE Specific Behaviour Information 1 idle			This IE will not be checked by default behaviour, but in specific test case.
Measurement informati	on elements		
Measured results on RAC	Not checked		
NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in accordance with the requirements of the following procedure.			

7.1.2.4.3 RRC CONNECTION SETUP

This message is sent from the SS to the UE using the UM-RLC SAP. The message is sent on the CCCH Logical channel.

The default RRC CONNECTION SETUP message for the transition to connected mode CELL_DCH is used except for the IE fields specified below.

Information Element			Value/Remark		
Message Type			RRC CONNECTION SETUP		
UE Information Elements					
Initial UE identity	TMSI and LAI	TMSI (GSM-MAP)	As specified during Registration procedure		
		LAI (GSM-MAP)	As specified by default 1 cell environment		
RB Information Elements					
Use default					
TrCH Information Elements	3				
Use default					
PhyCH Information Elemen	ts				
Frequency info As specified by default 1 cell environment					
Uplink radio resources					
Use default					
Downlink radio resources					
Use default					
NOTE: These defaults are ap	plied if no subseq	uent procedure is to be run.	Otherwise, the UE Identity is selected in		
accordance with the requirem	nents of the follow	ing procedure.			

7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent by the UE to the SS using AM-RLC SAP. The message is sent on the DCCH Logical channel.

Information Element			Value/Remark
Message Type		RRC CONNECTION SETUP COMPLETE	
UE Information Elements			00.000
Hyper frame number			Not checked
UE radio access capability	Conformance test	compliance	R99
	PDCP capability	Support for lossless SRNS relocation	Not checked
		Supported algorithm types	Not checked
	RLC capability	Total RLC AM buffer size	Not checked
		Maximum number of AM entities	Not checked
	Transport channel capability	Downlink	
		Max no of bits received	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of received transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
		Support for turbo decoding Uplink	Not checked
		Max no of bits transmitted	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of transmitted transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
		Support for turbo encoding	Not checked
	RF capability	UE power class	As declared for UE
	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	Not checked
		bits transmitted per 10 ms Support of PCPCH	Not checked

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 capabil	lity		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 speech RAB + 3.4 kbps signalling radio bearer according to TS 34.108 clause 6.10.2.4.1.4 for FDD, clause 6.10.3.4.1.4 for 3.84 Mcps TDD and 6.11.5.4.1.4 for 1.28 Mcps TDD	

7.1.3.4.2 RADIO BEARER SETUP COMPLETE

The RADIO BEARER SETUP COMPLETE message is sent from the UE to the System Simulator, using AM-RLC on the DCCH logical channel.

The default RADIO BEARER SETUP COMPLETE message is used .

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP COMPLETE
Use default	

7.2 Generic setup procedures

7.2.1 UE Test States for Generic setup procedures

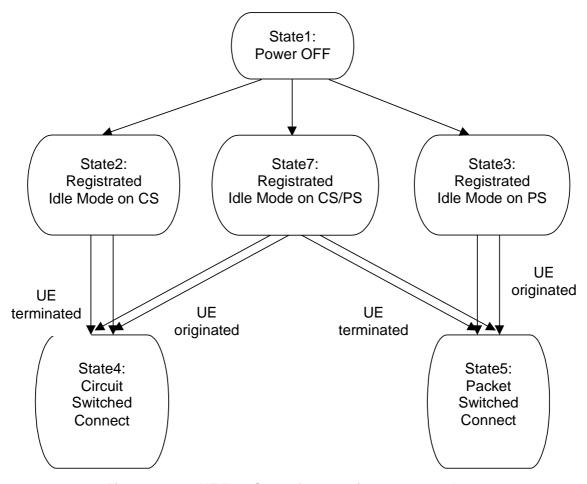


Figure 7.2.1.1: UE Test States for Generic setup procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.2.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.2.1.1.

Table 7.2.1.1: The UE states

		RRC	CC	MM	SM	GMM
State1	Power OFF		null	detached	inactive	detached
State2	Registered Idle Mode on CS	idle	null	idle	inactive	detached
State3	Registered Idle Mode on PS	idle	null	detached	inactive	idle
State4	Circuit Switched Connect	connected	active	connected	inactive	same as previous state
State5	Packet Switched Connect	connected	null	same as previous state	active	connected
State7	Registered Idle Mode on CS/PS	idle	null	idle	inactive	idle

7.2.2 Registration of UE

The default procedures required to achieve the changes of state between State 1, in clause 7.2.1, and States 2, 3 and 7 are illustrated in the following sections.

The choice of which procedure to use given a UE supporting packet services is influenced by the Network Mode of Operation being simulated by the SS and by the Operation Mode of the UE, as described in TS 24.008 [32] clause 1.7.2.2. Table 7.2.2 shows the appropriate clause number for each combination of these two modes of operation.

Table 7.2.2: Registration Procedures for UEs Supporting Packet Services

Netwo	ork Mode	NMO I	NMO II
UE Mode	PS/CS	7.2.2.3	7.2.2.4
Wiode	PS	7.2.2.2	7.2.2.2

7.2.2.1 Registration on CS

7.2.2.1.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.1.2 Definition of system information messages

The default system information messages are used.

7.2.2.1.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	LOCATION UPDATING REQUEST	MM
6	<	AUTHENTICATION REQUEST	MM
7	>	AUTHENTICATION RESPONSE	MM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	<	LOCATION UPDATING ACCEPT	MM
11	>	TMSI REALLOCATION COMPLETE	MM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.2.2 Registration on PS

7.2.2.2.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.2.2 Definition of system information messages

The default system information messages are used.

7.2.2.2.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	ATTACH REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	<	ATTACH ACCEPT	GMM
11	>	ATTACH COMPLETE	GMM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.2.3 Registration on CS / PS combined environment

7.2.2.3.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode I, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.3.2 Definition of system information messages

7.2.2.3.3 Procedure UE establish PS registration immediately after the UE has been switched on

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	ATTACH REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	<	ATTACH ACCEPT	GMM
11	>	ATTACH COMPLETE	GMM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.3.3a Procedure UE establish PS registration later the user decides to use the PS services

CS registration has been successfully completed and RRC connection is released, cee clause 7.2.2.1. Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
-	UE SS	1	
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
1a			The UE initiates an attach by
			MMI or by AT command.
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	ATTACH REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	<	ATTACH ACCEPT	GMM
11	>	ATTACH COMPLETE	GMM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.3.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.2.4 Registration on CS / PS non-combined environment

7.2.2.4.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode II, default parameters.

User Equipment:

- The UE set to Operation mode A

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.4.2 Definition of system information messages

The default system information messages are used.

7.2.2.4.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Registrations in the CS domain and in the PS domain shall execute independently. The separate registration procedures may occur sequentially or in parallel. If the procedures occur sequentially PS domain registration can be started immediately after power on or the UE can initiate PS registration by MMI or by AT command. If MMI or AT commands are used, registrations are done with two separate RRC connections. The procedures for CS and PS registration shall be as defined in clauses 7.2.2.1 and 7.2.2.2.

7.2.2.4.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer3 Testing".

7.2.3 Call setup

7.2.3.1 Generic call set up procedure for mobile terminating circuit switched calls

7.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.1.2 Definition of system information messages

7.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	PAGING (PCCH)	Paging
3	>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	RRC CONNECTION SETUP (CCCH)	RRC
5	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>	PAGING RESPONSE	RR
7	<	AUTHENTICATION REQUEST	MM
8	>	AUTHENTICATION RESPONSE	MM
9	<	SECURITY MODE COMMAND	RRC
10	>	SECURITY MODE COMPLETE	RRC
11	<	SET UP	CC
12	>	CALL CONFIRMED	CC
13	<	RADIO BEARER SETUP	RRC RAB SETUP
14	>	RADIO BEARER SETUP COMPLETE	RRC
15	>	ALERTING	CC (this message is optional)
16	>	CONNECT	CC
17	<	CONNECT ACKNOWLEDGE	CC

7.2.3.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.3.2 Generic call set-up procedure for mobile originating circuit switched calls

7.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.3.2.2 Definition of system information messages

7.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	CM SERVICE REQUEST	MM
6	<	AUTHENTICATION REQUEST	MM
7	>	AUTHENTICATION RESPONSE	MM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	>	SET UP	cc
11	<	CALL PROCEEDING	cc
12	<	RADIO BEARER SETUP	RRC RAB SETUP
13	>	RADIO BEARER SETUP COMPLETE	RRC
14	<	ALERTING	cc
15	<	CONNECT	cc
16	>	CONNECT ACKOWLEDGE	CC

7.2.3.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.4 Session setup

7.2.4.1 Generic session set up procedure for mobile terminating packet switched sessions

7.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.4.1.2 Definition of system information messages

7.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<	:	SYSTEM INFORMATION (BCCH)	Broadcast
2	<		PAGING TYPE1 (PCCH)	Paging
3	-	->	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	:	RRC CONNECTION SETUP (CCCH)	RRC
5	-	->	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6		->	SERVICE REQUEST	GMM
7	<	:	AUTHENTICATION AND CIPHERING REQUEST	GMM
8	-	->	AUTHENTICATION AND CIPHERING RESPONSE	GMM
9	<	:	SECURITY MODE COMMAND	RRC
10		->	SECURITY MODE COMPLETE	RRC
11	<	:	REQUEST PDP CONTEXT ACTIVATION	SM
12		->	ACTIVATE PDP CONTEXT REQUEST	SM
13	<	:	RADIO BEARER SETUP	RRC RAB SETUP
14	-	->	RADIO BEARER SETUP COMPLETE	RRC
15	<	:	ACTIVATE PDP CONTEXT ACCEPT	SM

7.2.4.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.4.2 Generic session set up procedure for mobile originating packet switched sessions

7.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.4.2.2 Definition of system information messages

7.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	SERVICE REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	>	ACTIVATE PDP CONTEXT REQUEST	SM
11	<	RADIO BEARER SETUP	RRC RAB SETUP
12	>	RADIO BEARER SETUP COMPLETE	RRC
13	<	ACTIVATE PDP CONTEXT ACCEPT	SM

7.2.4.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.3 Test procedures for RF test

7.3.1 UE Test States for RF testing

In this clause, the states of the UE for the test are defined.

		RRC	CC	MM	SM	GMM
State1	Power OFF		null	detached	inactive	detached
State2	CS Registered Idle Mode	idle	null	idle	inactive	detached
State3	PS Registered Idle Mode	idle	null	detached	inactive	idle
State4	Test Mode	connected	null	detached	inactive	detached

7.3.2 Test procedure for TX, RX and Performance Requirement (without handover)

7.3.2.1 Initial conditions

System Simulator

- 1cell, default parameters.

User Equipment

The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.2.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b 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

Contents of System Information Block type 5 (FDD)

Information Element	Value/remark
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
- Pilot symbol existence	FALSE
- TFCI existence	TRUE (default value)
- Fixed or Flexible position	Flexible (default value)
- Timing offset	Not Present
-	Absence of this IE is equivalent to default
	value 0

7.3.2.3 Procedure

For UE supporting CS

Step	Direction		Message	Comments
	UE	SS		
1	<	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	<	PAGING TYPE1 (PCCH)	Paging (CS domain, TMSI)
3	-	->	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	<	RRC CONNECTION SETUP (CCCH)	RRC
5	-	->	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	-	->	PAGING RESPONSE	RR
7	<	<	AUTHENTICATION REQUEST	MM
8	-	->	AUTHENTICATION RESPONSE	MM
9	<	<	SECURITY MODE COMMAND	RRC
10	>		SECURITY MODE COMPLETE	RRC
11	<		ACTIVATE RB TEST MODE	TC
12	2>		ACTIVATE RB TEST MODE COMPLETE	TC
13	<		RADIO BEARER SETUP	RRC (RAB SETUP)
14	>		RADIO BEARER SETUP COMPLETE	RRC
15	<		CLOSE UE TEST LOOP (DCCH)	TC (UE test loop mode set up)
16	-	->	CLOSE UE TEST LOOP COMPLETE	TC (confirms that loopback
				entities for the radio bearer(s)
				have been created and loop
				back is activated)
17	<		OPEN UE TEST LOOP	TC
18	>		OPEN UE TEST LOOP COMPLETE	TC
19	<		RRC CONNECTION RELEASE	RRC
20			RRC CONNECTION RELEASE COMPLETE	RRC

For UE supporting PS only

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	PAGING TYPE1 (PCCH)	Paging (PS domain, P-TMSI)
3	>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	RRC CONNECTION SETUP (CCCH)	RRC
5	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>	SERVICE REQUEST	GMM
7	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
8	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
9	<	SECURITY MODE COMMAND	RRC
10	>	SECURITY MODE COMPLETE	RRC
11	<	ACTIVATE RB TEST MODE	TC
12	>	ACTIVATE RB TEST MODE COMPLETE	TC
13	<	RADIO BEARER SETUP	RRC (RAB SETUP)
14	>	RADIO BEARER SETUP COMPLETE	RRC
15	<	CLOSE UE TEST LOOP (DCCH)	TC (UE test loop mode set up)
16	>	CLOSE UE TEST LOOP COMPLETE	TC (confirms that loopback
			entities for the radio bearer(s)
			have been created and loop
			back is activated)
17	<	OPEN UE TEST LOOP	TC
18	>	OPEN UE TEST LOOP COMPLETE	TC
19	<	RRC CONNECTION RELEASE	RRC
20	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.3.2.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.2.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

Information Element	Value/remark
Periodic RA update timer	E0 (timer is deactivated)

7.3.2.4.2 Reference measurement channels

The configurations of the reference measurement channels for RF tests are described in TS 34.121 [2] Annex C for FDD and TS 34.122 [5] Annex C for TDD.

7.3.2.4.3 Void

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 test cases using Cell_PCH or URA_PCH state

7.3.3.1 Initial conditions

System Simulator

- 1cell, default parameters.

User Equipment

The UE shall be operated under RF test conditions.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.3.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b 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

Contents of System Information Block type 5 (FDD)

Information Element	Value/remark
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
- Pilot symbol existence	FALSE
- TFCI existence	TRUE (default value)
- Fixed or Flexible position	Flexible (default value)
- Timing offset	Not Present
-	Absence of this IE is equivalent to default value 0

7.3.3.3 Procedure

For UE supporting PS

Step	Direction		Message	Comments
	UE SS			
1	<	;	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	:	PAGING TYPE1 (PCCH)	Paging (PS domain, P-TMSI)
3		->	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	:	RRC CONNECTION SETUP (CCCH)	RRC
5		->	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6		->	SERVICE REQUEST	GMM
7	<	:	AUTHENTICATION AND CIPHERING REQUEST	GMM
8		->	AUTHENTICATION AND CIPHERING RESPONSE	GMM
9	<	:	SECURITY MODE COMMAND	RRC
10		->	SECURITY MODE COMPLETE	RRC
11	1	:	ACTIVATE RB TEST MODE	TC
12		->	ACTIVATE RB TEST MODE COMPLETE	TC
13	3 <		RADIO BEARER SETUP	RRC
				- RAB SETUP using Reference
				Radio Bearer Configuration
14		->	RADIO BEARER SETUP COMPLETE	RRC
15		-> :	PHYSICAL CHANNEL RECONFIGURATION	RRC
13	`		THISIONE CHANNEL RECONFIGURATION	- RRC state indicator is set to
				'Cell_PCH' or 'URA_PCH'
				depending on the test case
				depending on the test sace
16		->	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	RRC
				The UE sends this message
				before it completes state
				transition.
17			Void	SS sends the L2 ack on the
				PHYSICAL CHANNEL
				RECONFIGURATION
				COMPLETE message.
				Note: The SS should continue
				to keep the dedicated channel
				configuration during the time
				when the L2 ack is sent to the
				UE.

7.3.3.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

The RADIO BEARER SETUP message is defined in section 9.2.1 'Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)'.

The PHYSICAL CHANNEL RECONFIGURATION message is defined in 9.1.1 'Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM' using condition A8 for URA_PCH and condition A10 for Cell_PCH.

Contents of Attach Accept message: GMM

Information Element	Value/remark	
Periodic RA update timer	E0 (timer is deactivated)	

7.3.4 Test procedure for Handover

7.3.4.1 Initial conditions

System Simulator

- Intra-frequency hard handover and soft handover case:
 - 2 cells, default parameters according to Cell 1 and Cell 2 in clause 6.1.4.
- Inter-frequency hard handover case:
 - 2 cells, default parameters according to Cell 1 and Cell 4 in clause 6.1.4.
- Inter-system handover UTRAN FDD to GSM case:
 - 2 cells, default parameters according to Cell 1 and Cell 9 in clause 6.1.4.

User Equipment

The UE shall be initially operated under the normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.4.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b 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

Contents of System Information Block type 5 (FDD)

Information Element	Value/remark
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
- Pilot symbol existence	FALSE
- TFCI existence	TRUE (default value)
- Fixed or Flexible position	Flexible (default value)
- Timing offset	Not Present
	Absence of this IE is equivalent to default
	value 0

For the intra-frequency hard handover and soft handover case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 2 in clause 6.1.4 are used.

For the inter-frequency hard handover case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 4 in clause 6.1.4 are used.

For the inter-system handover from UTRAN FDD to GSM case the default messages for SIB11 and SIB12 as specified for Cell 1 and Cell 9 in clause 6.1.4 are used.

7.3.4.3 Procedure

For UE supporting CS

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	PAGING TYPE1 (PCCH)	Paging (CS domain, TMSI)
3	>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	RRC CONNECTION SETUP (CCCH)	RRC
5	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>	PAGING RESPONSE	RR
7	<	AUTHENTICATION REQUEST	MM
8	>	AUTHENTICATION RESPONSE	MM
9	<	SECURITY MODE COMMAND	RRC
10	>	SECURITY MODE COMPLETE	RRC
11	<	ACTIVATE RB TEST MODE	TC
12	>	ACTIVATE RB TEST MODE COMPLETE	TC
13	<	RADIO BEARER SETUP	RRC
			- RAB SETUP using Reference
			Radio Bearer Configuration
			- RRC state indicator is set to
			"CELL_DCH"
14	>	RADIO BEARER SETUP COMPLETE	RRC
15	<	RRC CONNECTION RELEASE	RRC
16	>	RRC CONNECTION RELEASE COMPLETE	RRC

For UE supporting PS only

Step	Direction		Message	Comments
	UE	SS		
1	<		SYSTEM INFORMATION (BCCH)	Broadcast
2	<		PAGING TYPE1 (PCCH)	Paging (PS domain, P-TMSI)
3		·>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<		RRC CONNECTION SETUP (CCCH)	RRC
5		·>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6		·>	SERVICE REQUEST	GMM
7	<		AUTHENTICATION AND CIPHERING REQUEST	GMM
8	>		AUTHENTICATION AND CIPHERING RESPONSE	GMM
9	<		SECURITY MODE COMMAND	RRC
10		·>	SECURITY MODE COMPLETE	RRC
11	1 <		ACTIVATE RB TEST MODE	TC
12	>		ACTIVATE RB TEST MODE COMPLETE	TC
13	<		RADIO BEARER SETUP	RRC
				- RAB SETUP using Reference
				Radio Bearer Configuration
				- RRC state indicator is set to
				"CELL_DCH"
14	>		RADIO BEARER SETUP COMPLETE	RRC
15	<		RRC CONNECTION RELEASE	RRC
16	>		RRC CONNECTION RELEASE COMPLETE	RRC

7.3.4.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of RADIO BEARER SETUP message: RRC

Information Element	Value/remark		
New C-RNTI	'1010 1010 1010 1010'		
RRC State indicator	CELL_DCH		

Contents of Attach Accept message: GMM

Information Element	Value/remark		
Periodic RA update timer	E0 (timer is deactivated)		

7.3.5 Test procedure for test cases using CELL_FACH state

7.3.5.1 Initial conditions

System Simulator

- 1cell, with the settings defined in clause 6.8 of TS 34.121 [2] and clause 6.1.4 of the present document.

User Equipment

The UE shall be operated under RF test conditions.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.5.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

For SIB 1 the exceptions are given below.

For SIB 3 the exceptions are given in TS 34.121 [2] clause 6.8.4

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

Contents of System Information Block type 5 (FDD)

Information Element	Value/remark
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
- Pilot symbol existence	FALSE
- TFCI existence	TRUE (default value)
- Fixed or Flexible position	Flexible (default value)
- Timing offset	Not Present
	Absence of this IE is equivalent to default
	value 0

7.3.5.3 Procedure

For UE supporting CS

Step	Direction		Message	Comments
	UE SS			
1	<		SYSTEM INFORMATION (BCCH)	Broadcast
2	<		PAGING TYPE1 (PCCH)	Paging (CS domain, TMSI)
3	>		RRC CONNECTION REQUEST (CCCH)	RRC
4	<		RRC CONNECTION SETUP (CCCH)	RRC
5	>		RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>		PAGING RESPONSE	RR
7	<		AUTHENTICATION REQUEST	MM
8	>		AUTHENTICATION RESPONSE	MM
9	<		SECURITY MODE COMMAND	RRC
10	>		SECURITY MODE COMPLETE	RRC
11	<		ACTIVATE RB TEST MODE	TC
12	>		ACTIVATE RB TEST MODE COMPLETE	TC
13	<		DEACTIVATE RB TEST MODE	TC
14	>		DEACTIVATE RB TEST MODE COMPLETE	TC
15	<		RRC CONNECTION RELEASE	RRC
16	·>		RRC CONNECTION RELEASE COMPLETE	RRC

For UE supporting PS only

Step	p Direction		Message	Comments		
	UE SS					
1	<	<	SYSTEM INFORMATION (BCCH)	Broadcast		
2	<	<	PAGING TYPE1 (PCCH)	Paging (PS domain, P-TMSI)		
3	-	->	RRC CONNECTION REQUEST (CCCH)	RRC		
4	<	<	RRC CONNECTION SETUP (CCCH)	RRC		
5	-	->	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC		
6	-	->	SERVICE REQUEST	GMM		
7	< AUTHENTICATION AND CIPHERING REQUEST		AUTHENTICATION AND CIPHERING REQUEST	GMM		
8	> AUTHENTICATION AND CIPHERING RESPONSE		AUTHENTICATION AND CIPHERING RESPONSE	GMM		
9	< SECURITY MODE COMMAND		SECURITY MODE COMMAND	RRC		
10	> SECURITY MODE COMPLETE		SECURITY MODE COMPLETE	RRC		
11	<	<	ACTIVATE RB TEST MODE	TC		
12	-	->	ACTIVATE RB TEST MODE COMPLETE	TC		
13	< DEACTIVATE RB TEST MODE		DEACTIVATE RB TEST MODE	TC		
14	> DEACTIVATE RB TEST MODE COMPLETE		DEACTIVATE RB TEST MODE COMPLETE	TC		
15	< RRC CONNECTION RELEASE		RRC CONNECTION RELEASE	RRC		
16	> RRC CONNECTION RELEASE COMPLETE		RRC CONNECTION RELEASE COMPLETE	RRC		

7.3.5.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of Attach Accept message: GMM

Information Element	Value/remark	
Periodic RA update timer	E0 (timer is deactivated)	

The RRC connection setup is defined in 9.1.1 'Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)'

7.3.6 Test procedure for HSDPA RF Performance Requirement

7.3.6.1 Initial conditions

System Simulator

- 1 HS-DSCH cell, default parameters.

User Equipment

The UE shall initially be operated under normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.6.2 Definition of system information messages

The default system information messages specified in clause 6.1.0b 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

Contents of System Information Block type 5 (FDD)

Information Element	Value/remark
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	FDD
 Secondary scrambling code 	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
 Pilot symbol existence 	FALSE
- TFCI existence	TRUE (default value)
 Fixed or Flexible position 	Flexible (default value)
- Timing offset	Not Present
_	Absence of this IE is equivalent to default value 0

7.3.6.3 Procedure

Step	p Direction		Message	Comments
	UE SS			
1	<	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	<	PAGING TYPE1 (PCCH)	Paging (PS domain, P-TMSI)
3	-	->	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	<	RRC CONNECTION SETUP (CCCH)	RRC
5	-	->	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	-	->	SERVICE REQUEST	GMM
7	<		AUTHENTICATION AND CIPHERING REQUEST	GMM
8	>		AUTHENTICATION AND CIPHERING RESPONSE	GMM
9	<		SECURITY MODE COMMAND	RRC
10	>		SECURITY MODE COMPLETE	RRC
11	<		ACTIVATE RB TEST MODE	TC
12	>		ACTIVATE RB TEST MODE COMPLETE	TC
13	< R		RADIO BEARER SETUP	RRC (RAB SETUP)
14	>		RADIO BEARER SETUP COMPLETE	RRC
15	· <>			Perform test
16	S <		RRC CONNECTION RELEASE	RRC
17	7>		RRC CONNECTION RELEASE COMPLETE	RRC

7.3.6.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.6.4.1 ATTACH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

Information Element	Value/remark	
Periodic RA update timer	E0 (timer is deactivated)	

7.3.6.4.2 RADIO BEARER SETUP

For step 13, the messages in clause 9.2 titled "Contents of RADIO BEARER SETUP message: AM or UM (HSDPA)" is used.

The configurations of the fixed reference channels for HSDPA RF tests are described in TS 34.121[2] Annex C for FDD and TS 34.122[5] Annex C for TDD.

7.4 Common generic procedures for AS testing

7.4.1 UE RRC Test States for common procedures

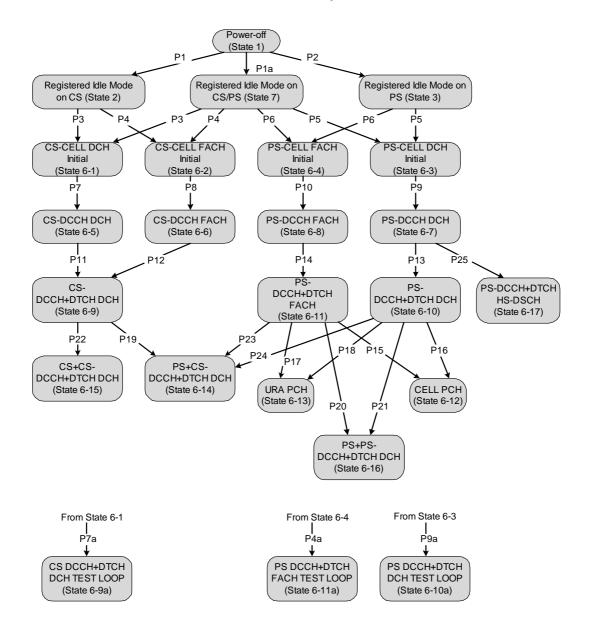


Figure 7.4.1.1: UE RRC test initial states and common procedures

For UE to set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.4.1.1, the operating states for various protocols in the UE are given in table 7.4.1.1.

It is noted that figure 7.4.1.1 should not be construed as a formal state transition diagram, in any manner. The intention here is to define the starting state of UE following the execution of the procedures indicated above.

Table 7.4.1.1: The UE states

		RRC	CC	MM	SM	GMM
State 1	Power OFF		Null	Detached	Inactive	Detached
State 2	Registered Idle Mode on CS	Idle	Null	ldle	Inactive	Detached
State 3	Registered Idle Mode on PS	Idle	Null	Detached	Inactive	Idle
State 7	Registered Idle Mode on CS/PS	Idle	Null	Idle	Inactive	Idle
State BGP6-1	CS-CELL_DCH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-2	CS-CELL_FACH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-3	PS-CELL_DCH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-4	PS-CELL_FACH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-5	CS-DCCH_DCH	Connected (CELL_DCH)	Null	As previous	Inactive	As previous
State BGP6-6	CS-DCCH_FACH	Connected (CELL_FACH)	Null	As previous	Inactive	As previous
State BGP6-7	PS-DCCH_DCH	Connected (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 BGP6-9a	CS- DCCH+DTCH_DCH_TEST LOOP	Connected (CELL_DCH)	Null	As previous	Inactive	As previous
State BGP6-10	PS-DCCH+DTCH_DCH	Connected (CELL_DCH)	Null	As previous	Active	As previous
State BGP6-10a	PS- DCCH+DTCH_DCH_TEST LOOP	Connected (CELL_DCH)	Null	As previous	Inactive	As previous
State BGP6-11	PS-DCCH+DTCH_FACH	Connected (CELL_FACH)	Null	As previous	Active	As previous
State BGP6-11a	PS- DCCH+DTCH_FACH_TES T_LOOP	Connected (CELL_FACH)	Null	As previous	Inactive	As previous
State BGP6-12	CELL_PCH	Connected (CELL_PCH)	Null	As previous	Inactive	As previous
State BGP6-13	URA_PCH	Connected (URA_PCH)	Null	As previous	Inactive	As previous
State BGP6-14	PS+CS- 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 BGP6-17	PS-DCCH+DTCH_HS- DSCH	Connected (CELL_DCH)	Null	As previous	Active	As previous

State 1, state 2, state 3, P1, P2 and P1a are described in TS34.108 clause 7.2. States 6-X (for X=1 to 17) are described below.

7.4.2 Generic Setup Procedure for RRC test cases

7.4.2.1 RRC connection establishment procedure for circuit-switched calls (procedure P3 and P4)

7.4.2.1.1 Mobile terminating call

7.4.2.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

7.4.2.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.1.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		PAGING TYPE 1 (PCCH)	RRC
2	>		RRC CONNECTION REQUEST (CCCH)	RRC
3	<		RRC CONNECTION SETUP (CCCH)	RRC
4	>		RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>		PAGING RESPONSE	RR

7.4.2.1.1.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P4, all specific message contents with the exception of step 3 shall be referred to clause 9 of TS 34.108. For step 3, the message of the same type titled "Transition to CELL_FACH" in TS 34.108 clause 9 is used.

7.4.2.1.2 Mobile originating calls

7.4.2.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

7.4.2.1.2.2 Definition of system information messages

The default system information messages specified in clause 6.1 of TS 34.108 are used.

7.4.2.1.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	RRC CONNECTION REQUEST (CCCH)	RRC
2	<	RRC CONNECTION SETUP (CCCH)	RRC
3	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
4	>	CM SERVICE REQUEST	MM

7.4.2.1.2.4 Specific message contents

To execute procedure P3, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P4, all specific message contents with the exception of step 2 shall be referred to clause 9 of TS 34.108. For step 2, the message of the same type titled "Transition to CELL_FACH" in TS 34.108 clause 9 is used.

7.4.2.2 RRC connection establishment procedure for packet switched sessions (procedure P5 and P6)

7.4.2.2.1 Mobile terminating session

7.4.2.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

7.4.2.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.2.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

 Step	Direction		Message	Comments
	UE	SS		
1	<		PAGING TYPE1 (PCCH)	Paging
2	>		RRC CONNECTION REQUEST (CCCH)	RRC
3	<		RRC CONNECTION SETUP (CCCH)	RRC
4	>		RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>		SERVICE REQUEST	GMM

7.4.2.2.1.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P6, all specific message contents with the exception of step 3 shall be referred to clause 9 of TS 34.108. For step 3, the message of the same type titled "Transition to CELL_FACH" in TS 34.108 clause 9 is used.

7.4.2.2.2 Mobile originating sessions

7.4.2.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

7.4.2.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS]	
1	>	RRC CONNECTION REQUEST (CCCH)	RRC
2	<	RRC CONNECTION SETUP (CCCH)	RRC
3	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
4	>	SERVICE REQUEST	GMM

7.4.2.2.2.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P6, all specific message contents with the exception of step 2 shall be referred to clause 9 of TS 34.108. For step 2, the message of the same type titled "Transition to CELL_FACH" in TS 34.108 clause 9 is used.

7.4.2.3 NAS call set up procedure for circuit switched calls (procedure P7 and P8)

7.4.2.3.1 Mobile terminating call

7.4.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

7.4.2.3.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Directio	Message	Comments
	UE S		
1	<	AUTHENTICATION REQUEST	MM
2	>	AUTHENTICATION RESPONSE	MM
3	<	SECURITY MODE COMMAND	RRC
4	>	SECURITY MODE COMPLETE	RRC
5	<	SET UP	CC
6	>	CALL CONFIRMED	CC

7.4.2.3.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS 34.108.

7.4.2.3.2 Mobile originating calls

7.4.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1or state 6-2.
- The Test USIM shall be inserted.

7.4.2.3.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		AUTHENTICATION REQUEST	MM
2	>		AUTHENTICATION RESPONSE	MM
3	<		SECURITY MODE COMMAND	RRC
4	>		SECURITY MODE COMPLETE	RRC
5	>		SET UP	CC
6	<		CALL PROCEEDING	CC

7.4.2.3.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS 34.108.

7.4.2.4 NAS session activation procedure for packet switched sessions (procedure P9 and P10)

7.4.2.4.1 Mobile terminating session

7.4.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

7.4.2.4.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
2	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
3	<	SECURITY MODE COMMAND	RRC
4	>	SECURITY MODE COMPLETE	RRC
5	<	REQUEST PDP CONTEXT ACTIVATION	SM
6	>	ACTIVATE PDP CONTEXT REQUEST	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 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		AUTHENTICATION AND CIPHERING REQUEST	GMM
2	>		AUTHENTICATION AND CIPHERING RESPONSE	GMM
3	<		SECURITY MODE COMMAND	RRC
4	>		SECURITY MODE COMPLETE	RRC
5	>		ACTIVATE PDP CONTEXT REQUEST	SM

7.4.2.4.2.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS34.108.

7.4.2.5 Radio access bearer establishment procedure for circuit switched calls (procedure P11 and P12)

7.4.2.5.1 Mobile terminating call

7.4.2.5.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

7.4.2.5.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.5.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		RADIO BEARER SETUP	RRC RAB SETUP
2	>		RADIO BEARER SETUP COMPLETE	RRC
3	>		ALERTING	CC (This message is optional)
4	>		CONNECT	CC
5	<		CONNECT ACKNOWLEDGE	CC

7.4.2.5.1.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9 of TS 34.108) for the message in step 1.

7.4.2.5.2 Mobile originating calls

7.4.2.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-5 or state 6-6.
- The Test USIM shall be inserted.

7.4.2.5.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.5.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		RADIO BEARER SETUP	RRC RAB SETUP
2	>		RADIO BEARER SETUP COMPLETE	RRC
3	<		ALERTING	CC
4	<		CONNECT	CC
5	-	->	CONNECT ACKOWLEDGE	CC

7.4.2.5.2.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9 of TS 34.108) for the message in step 1.

7.4.2.5a Test loop activation and radio access bearer establishment procedure for circuit switched calls (procedure P7a)

7.4.2.5a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1.
- The Test USIM shall be inserted.

7.4.2.5a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.5a.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	AUTHENTICATION REQUEST	MM
2	>	AUTHENTICATION RESPONSE	MM
3	<	SECURITY MODE COMMAND	RRC
4	>	SECURITY MODE COMPLETE	RRC
5	<	ACTIVATE RB TEST MODE (DCCH)	TC
6	>	ACTIVATE RB TEST MODE COMPLETE (DCCH)	TC
1	<	RADIO BEARER SETUP	RRC RAB SETUP
2	>	RADIO BEARER SETUP COMPLETE	RRC
14	<	CLOSE UE TEST LOOP (DCCH)	TC
			UE test mode 1
			RLC SDU size set as specified
			for the actual test case.
15	>	CLOSE UE TEST LOOP COMPLETE (DCCH)	TC

7.4.2.5a.4 Specific message contents

To execute procedure P7a, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1.

7.4.2.6 Radio access bearer establishment procedure for packet switched sessions (procedure P13, P14 and P25)

7.4.2.6.1 Mobile terminating session

7.4.2.6.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

7.4.2.6.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.6.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

	Step	Direction		Message	Comments
		UE	SS		
Γ	1	<		RADIO BEARER SETUP	RRC RAB SETUP
	2	>		RADIO BEARER SETUP COMPLETE	RRC
	3	<		ACTIVATE PDP CONTEXT ACCEPT	SM

7.4.2.6.1.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P13, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL_FACH from CELL_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS".

7.4.2.6.2 Mobile originating sessions

7.4.2.6.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

7.4.2.6.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.6.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		RADIO BEARER SETUP	RRC RAB SETUP
2	>		RADIO BEARER SETUP COMPLETE	RRC
3	<		ACTIVATE PDP CONTEXT ACCEPT	SM

7.4.2.6.2.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P13, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure P14, use the message titled "Packet to CELL_FACH from CELL_FACH in PS". To execute procedure P25, use the message titled "Packet to CELL_DCH / HS-DSCH from CELL_DCH in PS".

7.4.2.6a Test loop activation and radio access bearer establishment procedure for packet switched sessions (procedure P4a and P9a)

7.4.2.6a.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-3 or state 6-4.
- The Test USIM shall be inserted.

7.4.2.6a.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.6a.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	·	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
2	-	->	AUTHENTICATION AND CIPHERING RESPONSE	GMM
3	<	<	SECURITY MODE COMMAND	RRC
4	-	->	SECURITY MODE COMPLETE	RRC
5	<	<	ACTIVATE RB TEST MODE (DCCH)	TC
6	-	->	ACTIVATE RB TEST MODE COMPLETE (DCCH)	TC
7	<	<	RADIO BEARER SETUP	RRC RAB SETUP. The "pdcp
				info" IE shall be omitted.
8	-	->	RADIO BEARER SETUP COMPLETE	RRC
14	<	<	CLOSE UE TEST LOOP (DCCH)	TC
				UE test mode 1
				RLC SDU size set as specified
				for the actual test case.
15	-	->	CLOSE UE TEST LOOP COMPLETE (DCCH)	TC

7.4.2.6a.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P9a, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure 4a, use the message titled "Packet to CELL_FACH from CELL_FACH in PS" with the exception that the "pdcp info" IE shall be omitted.

7.4.2.7 Procedure for transitions to CELL_PCH or URA_PCH state (procedure P15, P16, P17 and P18)

7.4.2.7.1 Transition to CELL_PCH (procedure P15 and P16)

7.4.2.7.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.7.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.7.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

	Step	p Direction		Message	Comments
		UE	SS		
Ī	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 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Ī	Step	Direction	Message	Comments
		UE SS		
Ī	1	<	PHYSICAL CHANNEL RECONFIGURATION	RRC
	2	>	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	RRC

7.4.2.7.2.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

Information Element	Value/remark
Message Type	
RRC State Indicator	URA_PCH

7.4.2.8 Radio access bearer establishment procedure with packet switched sessions for transitions to Multi Call state (procedure P19, 20 and 21)

7.4.2.8.1 Transition to PS+CS-DCCH+DTCH DCH (procedure P19)

7.4.2.8.1.1 Mobile terminating session

7.4.2.8.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.8.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.8.1.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	PAGING TYPE2 (DCCH)	Paging
2	>	SERVICE REQUEST	GMM
3	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
4	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
5	<	SECURITY MODE COMMAND	RRC
6	>	SECURITY MODE COMPLETE	RRC
7	<	REQUEST PDP CONTEXT ACTIVATION	SM
8	>	ACTIVATE PDP CONTEXT REQUEST	SM
9	<	RADIO BEARER SETUP	RRC RAB SETUP
10	>	RADIO BEARER SETUP COMPLETE	RRC
11	<	ACTIVATE PDP CONTEXT ACCEPT	SM

7.4.2.8.1.1.4 Specific message contents

FFS

7.4.2.8.1.2 Mobile originating sessions

7.4.2.8.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.8.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.8.1.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	SERVICE REQUEST	GMM
2	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
3	>	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 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		PAGING TYPE2 (DCCH)	Paging
2		·>	SERVICE REQUEST	GMM
3	<		SERVICE ACCEPT	GMM
4	<		REQUEST PDP CONTEXT ACTIVATION	SM
5		·>	ACTIVATE PDP CONTEXT REQUEST	SM
6	<		RADIO BEARER SETUP	RRC RAB SETUP
7		·>	RADIO BEARER SETUP COMPLETE	RRC
8	<		ACTIVATE PDP CONTEXT ACCEPT	SM

7.4.2.8.2.1.4 Specific message contents

FFS

7.4.2.8.2.2 Mobile originating sessions

7.4.2.8.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.8.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.8.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	SERVICE REQUEST	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	ISM

7.4.2.8.2.2.4 Specific message contents

FFS

7.4.2.9 Radio access bearer establishment procedure with circuit switched calls for transitions to Multi Call state (procedure P22, P23 and P24)

7.4.2.9.1 Transition to CS+CS-DCCH+DTCH DCH (procedure P22)

7.4.2.9.1.1 Mobile terminating call

7.4.2.9.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.9.1.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.9.1.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Directio	n Message	Comments
	UE S		
1	<	PAGING TYPE2 (DCCH)	Paging
2	>	PAGING RESPONSE	RR
3	<	SET UP	CC
4	>	CALL CONFIRMED	CC
5	<	RADIO BEARER SETUP	RRC RAB SETUP
6	>	RADIO BEARER SETUP COMPLETE	RRC
7	>	ALERTING	CC (this message is optional)
8	>	CONNECT	CC
9	<	CONNECT ACKNOWLEDGE	CC

7.4.2.9.1.1.4 Specific message contents

FFS

7.4.2.9.1.2 Mobile originating calls

7.4.2.9.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.9.1.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.9.1.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	CM SERVICE REQUEST	MM
2	<	CM SERVICE ACCEPT	MM
3	>	SET UP	CC
4	<	CALL PROCEEDING	CC
5	<	RADIO BEARER SETUP	RRC RAB SETUP
6	>	RADIO BEARER SETUP COMPLETE	RRC
7	<	ALERTING	CC
8	<	CONNECT	CC
9	>	CONNECT ACKNOWLEDGE	CC

7.4.2.9.1.2.4 Specific message contents

FFS

7.4.2.9.2 Transition to PS+CS-DCCH+DTCH DCH (procedure P23 and 24)

7.4.2.9.2.1 Mobile terminating call

7.4.2.9.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.9.2.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.9.2.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
-	UE SS	1	
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	lcc

7.4.2.9.2.1.4 Specific message contents

FFS

7.4.2.9.2.2 Mobile originating calls

7.4.2.9.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.9.2.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

7.4.2.9.2.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	CM SERVICE REQUEST	MM
2	<	AUTHENTICATION REQUEST	MM
3	>	AUTHENTICATION RESPONSE	MM
4	<	SECURITY MODE COMMAND	RRC
5	>	SECURITY MODE COMPLETE	RRC
6	>	SET UP	CC
7	<	CALL PROCEEDING	CC
8	<	RADIO BEARER SETUP	RRC RAB SETUP
9	>	RADIO BEARER SETUP COMPLETE	RRC
10	<	ALERTING	CC
11	<	CONNECT	CC
12	>	CONNECT ACKOWLEDGE	CC

7.4.2.9.2.2.4 Specific message contents

FFS

8 Test USIM Parameters

8.1 Introduction

This clause defines default parameters for programming the elementary files of the test USIM. The requirements of this clause do not apply to the USIM/ME tests of 3GPP TS 31.120 and 3GPP TS31.121.

8.1.1 Definitions

"Test USIM card":

A USIM card supporting the test algorithm for authentication, programmed with the parameters defined in this clause. The electrical, mechanical and environmental requirements of the test USIM card are specified in TS 31.101 and TS 31.102.

"Test USIM":

Either a test USIM card or the USIM simulator programmed with the parameters defined in this clause.

8.1.2 Definition of the test algorithm for authentication

In order to be able to easily test the UMTS authentication and key agreement procedure as specified in TS 33.102 [24] and TS 33.105 [26] along the whole system, the availability of a test algorithm for generation of authentication vector based on quintets is needed (in GSM triplets was used). Additionally, calculation of the parameters for resynchronisation requests is needed. The definition of the test algorithm are the functions f1, f2, f3, f4, f5 and the corresponding functions for re-synchronization are $f1^*$ and $f5^*$.

For test USIM intended to be used for inter-RAT test cases then the test USIM shall support the conversion function c3 according to TS 33.102 [24] clause 6.8.1.2 to derive the GSM ciphering key Kc from the UMTS cipher/integrity keys CK and IK.

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS. The test algorithm may also, for test purposes, be implemented in AUC.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

8.1.2.1 Authentication and key derivation in the test USIM and SS

The following steps describe sequence of operations for the functions f1, f2, f3, f4 and f5 to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES, CK, IK, Kc and AK respectively, to be used in the authentication and key agreement procedure.

Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

```
XDOUT[bits 0,1, \dots 126,127] = K [bits 0,1, \dots 126,127] XOR RAND[bits 0,1, \dots 126,127]
```

Step 2:

RES (test USIM), XRES (SS), CK, IK and AK are extracted from XDOUT this way:

```
RES[bits 0,1, ... n-1, n] = f2(XDOUT,n) = XDOUT[bits 0,1, ... n-1, n] (with 30 < n < 128)
```

NOTE: Suggested length for RES is 128 bits (i.e. n = 127). In SS and AUC, the XRES calculation is identical to RES.

```
CK[bits 0,1,...126,127] = f3(XDOUT) = XDOUT[bits 8,9,...126,127,0,1,...6,7]
```

$$IK[bits 0,1,...126,127] = f4(XDOUT) = XDOUT[bits 16,17,...126,127,0,1,...14,15]$$

$$AK[bits 0,1,...46,47] = f4(XDOUT) = XDOUT[bits 24,25,...70,71]$$

For test USIM intended for inter-RAT testing the GSM ciphering key Kc shall be derived from the UMTS cipher/integrity keys:

```
Kc[bits 0,1,...62,63] = c3(CK,IK), see TS 33.102 clause 6.8.1.2
```

Step 3:

Concatenate **SQN** with **AMF** to obtain **CDOUT** like this:

```
CDOUT[bits 0,1,...62,63] = SQN[bits 0,1,...46,47] || AMF[bits 0,1,...14,15]
```

NOTE: For test USIM the $\mathbf{SQN} = \mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}$ [bits 0,1,...46,47] = \mathbf{AUTN} [bits 0,1,...46,47] XOR \mathbf{AK} [bits 0,1,...46,47] where AUTN is the received authentication token.

Step 4:

XMAC (test USIM) and MAC (SS) are calculated from XDOUT and CDOUT this way:

 $\mathbf{XMAC}[\text{bits }0,1,\dots.62,63] = \mathbf{f1}(\mathbf{XDOUT},\mathbf{CDOUT}) = \mathbf{XDOUT}[\text{bits }0,1\dots.62,63] \text{ XOR }\mathbf{CDOUT}[\text{bits }0,1,\dots.62,63]$

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.

When the test USIM receives an authentication token (AUTN) having the value of AMF field equal to the AMF_{RESYNCH} value then the test USIM shall initiate the re-synchronisation procedure.

When the test USIM starts the re-synchronisation procedure, the MAC-S and AK have to be calculated using the functions f1* and f5*, which in the test algorithm are identical to f1 and f5, respectively.

Step 1:

XOR to the challenge RAND, a predefined number K (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as RAND.

The result **XDOUT** of this is:

Step 2:

AK is extracted from XDOUT this way:

$$AK[bits 0,1,...46,47] = f5*(XDOUT) = XDOUT[bits 24,25,...70,71]$$

Step 3:

Concatenate SQN_{MS} with AMF^* to obtain CDOUT like this:

CDOUT[bits 0,1,...62,63] = **SQN**_{MS}[bits 0,1,...46,47]
$$\parallel$$
 AMF*[bits 0,1,...14,15]

Where AMF* assumes a dummy value of all zeros

NOTE: For test USIM the $\mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}[\text{bits } 0,1,\dots46,47] = \mathbf{AUTN}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47] \text{ where AUTN is the received authentication token.}$

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}[\text{bits } 0,1,..110,111] \quad = \quad \mathbf{SQN_{MS}} \oplus \mathbf{AK}[\text{bits } 0,1,\ldots.46,47] \parallel \mathbf{MAC-S}[\text{bits } 0,1,\ldots.62,63]
```

Where $\mathbf{SQN_{MS}} \oplus \mathbf{AK}[\text{bits } 0,1,\dots46,47] = \mathbf{SQN_{MS}}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47]$

8.1.2.3 Using the authentication test algorithm for UE conformance testing

8.1.2.3.1 Authentication accept case

The authentication accept case is illustrated in figure 8.1.2.3.1 and 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the AMF_{RESYNCH} value.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter the test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to 4). The test USIM extracts the $SQN_{MS} = SQN_{SS}$, AMF and MAC parameters from the received authentication token AUTN.

The test USIM checks that XMAC = MAC and then return the RES, CK and IK parameters to the ME.

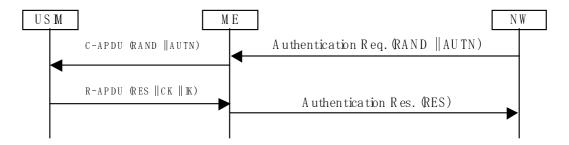


Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)

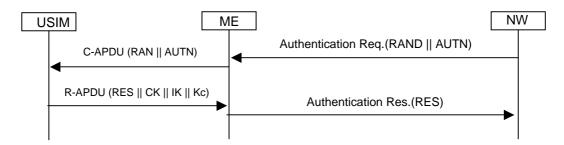


Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)

8.1.2.3.2 MAC failure case

The MAC failure case is illustrated in figure 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the AMF_{RESYNCH} value and a MAC value different from what is calculated in clause 8.1.2.1 step 4.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter The test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to 4).

The test USIM extracts the $SQN_{MS} = SQN_{SS}$, AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the calculated XMAC value is different from the MAC value received in AUTN then the USIM notifies the ME of the MAC failure and the ME sends an AUTENTICATION FAILURE message to the SS (cause "MAC failure").

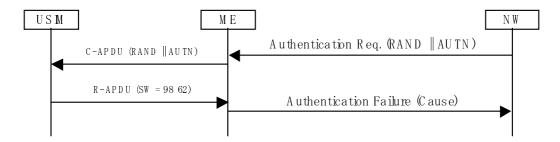


Figure 8.1.2.3.2: MAC failure cases

8.1.2.3.3 SQN failure case

The SQN failure case is illustrated in figure 8.1.2.3.3.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value equal to AMF_{RESYNCH}.

The SS sends an authentication request, including RAND and AUTN parameters, to the UE/USIM.

The test USIM extracts the $SQN_{MS} = SQN_{SS}$, AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the AMF field is equal to the AMF_{RESYNCH} value it calculates the re-synchronisation parameter AUTS as specified in clause 8.1.2.2 (step 1 to 5) and forward it to the ME.

The ME sends an AUTHENTICATION FAILURE message to the SS including the AUTS parameter.

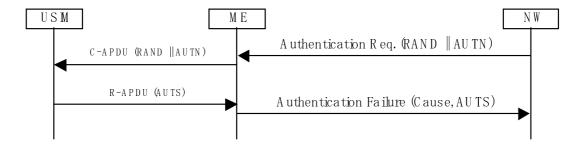


Figure 8.1.2.3.3: SQN failure case

8.2 Default Parameters for the test USIM

K:

Size: 16 Bytes

Default values: Bytes 1 (HEX): 00

Bytes 2 (HEX): 01 Bytes 3 (HEX): 02 Bytes 4 (HEX): 03 Bytes 5 (HEX): 04
Bytes 6 (HEX): 05
Bytes 7 (HEX): 06
Bytes 8 (HEX): 07
Bytes 9 (HEX): 08
Bytes 10 (HEX): 09
Bytes 11 (HEX): 0A

Bytes 12 (HEX): 0B

Bytes 13 (HEX): 0C

Bytes 14 (HEX): 0D

Bytes 15 (HEX): 0E

Bytes 16 (HEX): 0F

PIN Disabling:

The PIN enabled / disabled flag will be set to "PIN Disabled". This ensures that when the Test USIM is inserted into a UE the user will not be prompted for PIN entry.

8.3 Default settings for the Elementary Files (EFs)

The format and coding of elementary files of the USIM are defined in TS31.101 and TS31.102. The following clauses define the default parameters to be programmed into each elementary file. Some files may be updated by the UE based on information received from the SS. These are identified in the following clauses.

If EFs have an unassigned value, it may not be clear from the main text what this value should be. This clause suggests values in these cases.

8.3.1 Contents of the EFs at the MF level

8.3.1.1 EF_{DIR}

8.3.1.2 EF_{ICCID} (ICC Identity)

The programming of this EF is a test house option.

8.3.1.3 EF_{PI} (Preferred Languages)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.1.4 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2 Contents of files at the USIM ADF (Application DF) level

8.3.2.1 EF_{II} (Language Indication)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.2 EF_{IMSI} (IMSI)

The IMSI value will be chosen by the test house. The IMSI used by the SS will align this value.

File size: 9 bytes

Default values: Byte 1 (DEC): 8

Bytes 2-9 (HEX):09 10 10 ** ** ** **

"*" indicates any number between 0 and 9 subject to the restriction that IMSI mod 1000 (i.e. bytes 7, 8 and 9) lies in one of the following ranges:

063-125, 189-251, 315-377, 441-503, 567-629, 693-755, 819-881 or 945-999

NOTE: This ensures that the UE can listen to the second CCCH when more than one basic physical channel is configured for the CCCH. This is necessary for the test of "paging re-organization".

8.3.2.3 EF_{Kevs} (Ciphering and Integrity Keys)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.4 EF_{KevsPS} (Ciphering and Integrity Keys for Packet Switched domain)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.5 EF_{PLMNwAcT} (User controlled PLMN selector with Access Technology)

File size: 5n bytes

Default values (HEX): Bytes 1-3: 32 F4 10 (MCC, MNC) - Translates to 234, 01

Bytes 4-5: 80 00 (Access Technology) – Translates to UTRAN

Bytes 6-8: 32 F4 20 (MCC, MNC)

Bytes 9-10: 80 00 (Access Technology)

Bytes 11-13: 32 F4 30 (MCC, MNC)

••••

••••

••••

Bytes(5n-4) - (5n-2): 32 F4 43 (MCC, MNC)

Bytes (5n-1) - 5n: 80 00 (Access Technology)

PLMNs are shown coded above since this is the largest number required for a test. It is necessary to take this into account since the USIM cards must be dimensioned to cope with this number of records.

8.3.2.6 EF_{HPI MN} (HPLMN search period)

File size: 1 byte

Default value (HEX): 00 (no HPLMN search attempts)

8.3.2.7 EF_{ACMmax} (ACM maximum value)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not valid".

8.3.2.8 EF_{UST} (USIM Service Table)

Services will be allocated and activated as follows:

Services		Activated
Service n°1:	Local Phone Book	Option
Service n°2 :	Fixed Dialling Numbers (FDN)	Option
Service n°3 :	Extension 2	Option
Service n°4 :	Service Dialling Numbers (SDN)	Option
Service n°5 :	Extension3	Option
Service n°6 :	Barred Dialling Numbers (BDN)	Option
Service n°7 :	Extension4	Option
Service n°8 :	Outgoing Call Information (OCI and OCT)	Option
Service n°9 :	Incoming Call Information (ICI and ICT)	Option
Service n°10:	Short Message Storage (SMS)	Yes
Service n°11:	Short Message Status Reports (SMSR)	Option
Service n°12:	Short Message Service Parameters (SMSP)	Yes
Service n°13:	Advice of Charge (AoC)	Yes
Service n°14:	Capability Configuration Parameters (CCP)	Yes
Service n°15:	Cell Broadcast Message Identifier	Yes
Service n°16:	Cell Broadcast Message Identifier Ranges	Yes
Service n°17:	Group Identifier Level 1	Option
Service n°18:	Group Identifier Level 2	Option
Service n°19:	Service Provider Name	Option
Service n°20:	User controlled PLMN selector with Access Technology	Yes
Service n°21:	MSISDN	Option
Service n°22:	Image (IMG)	Option
Service n°23:	Not used (reserved for SoLSA)	No
Service n°24:	Enhanced Multi-Level Precedence and Pre-emption Service	Option
Service n°25:	Automatic Answer for Emlpp	Option
Service n°26:	RFU	No
Service n°27:	GSM Access	Yes
Service n°28:	Data download via SMS-PP	Option
Service n°29:	Data download via SMS-CB	Option
Service n°30:	Call Control by USIM	Option
Service n°31:	MO-SMS Control by USIM	Option
Service n°32:	RUN AT COMMAND command	Option
Service n°33:	Packet Switched Domain	Yes
Service n°34:	Enabled Services Table	Yes
Service n°35:	APN Control List (ACL)	Option
Service n°36:	Depersonalisation Control Keys	Option
Service n°37:	Co-operative Network List	Option
Service n°38:	GSM security context	Yes
Service n°39:	CPBCCH Information	Yes
Service n°40:	Investigation Scan	Yes
Service n°41:	MExE	Option
Service n°42	Operator controlled PLMN selector with Access Technology	Yes
Service n°43	HPLMN selector with Access Technology	Yes

8.3.2.9 EF_{ACM} (Accumulated Call Meter)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not yet implemented".

8.3.2.10 EF_{GID1} (Group Identifier Level 1)

The programming of this EF is a test house option.

8.3.2.11 EF_{GID2} (Group Identifier Level 2)

The programming of this EF is a test house option.

8.3.2.12 EF_{SPN} (Service Provider Name)

The programming of this EF is a test house option.

8.3.2.13 EF_{PUCT} (Price per Unit and Currency Table)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.14 EF_{CBMI} (Cell Broadcast Message identifier selection)

The programming of this EF is a test house option.

The file size is 2n bytes, where n is the number of Cell broadcast message identifier records - each record defining a type of Cell Broadcast message which may be accessed by the UE. Care should be taken when dimensioning the USIM to take into account the number of Cell Broadcast message identifier records required.

8.3.2.15 EF_{ACC} (Access Control Class)

The EFACC can be selected by a test house in two types.

Type A;

File size: 2 Bytes

Default values (BIN): Byte 1: 000000**

Byte 2: ******

The test house may set any single bit shown by "*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type B;

Default values (BIN): Byte 1: 111110**

Byte 2: ******

The test house may set any single bit shown by "*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

8.3.2.16 EF_{FPLMN} (Forbidden PLMNs)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.17 EF_{LOCI} (Location Information)

File size: 11 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (TMSI)

Bytes 5-9 (HEX): 42 F6 18 FF FE (LAI)

Byte 10 (HEX): FF (RFU)

Byte 11 (BIN): 00000001 (Location Update Status = "not updated")

Bytes 5-9: LAI-MCC = 246 (bytes 5-6) and LAI-MNC = 81 (byte 7) are frequently used. The LAC (bytes 8-9) is set to "FF FE" since this, in conjunction with byte 11 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

8.3.2.18 EF_{AD} (Administrative Data)

File size: 4 bytes

Default values Byte 1: 10000000 - (type approval operations)

Byte 2: 000000000

Byte 3: 000000000

Byte 4: 00000010

8.3.2.19 Void

8.3.2.20 EF_{CBMID} (Cell Broadcast Message Identifier for Data Download)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.21 EF_{ECC} (Emergency Call Codes)

The programming of this EF is a test house option.

8.3.2.22 EF_{CBMIR} (Cell Broadcast Message Identifier Range selection)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.23 EF_{PSI OCI} (Packet Switched location information)

File size: 14 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (P-TMSI)

Bytes 5-7 (HEX): FF FF FF (P-TMSI signature value)

Bytes 8-13 (HEX): 42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): 00000001 (Routing Area update status = "not updated")

Bytes 8-13: RAI-MCC = 246 (bytes 8-9) and RAI-MNC = 81 (byte 10) are frequently used. The LAC (bytes 11-12) is set to "FF FE" since this, in conjunction with byte 14 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. P-TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

8.3.2.24 EF_{FDN} (Fixed Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.25 EF_{SMS} (Short messages)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.26 EF_{MSISDN} (MSISDN)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.27 EF_{SMSP} (Short message service parameters)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.28 EF_{SMSS} (SMS status)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.29 EF_{SDN} (Service Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.30 EF_{EXT2} (Extension2)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.31 EF_{EXT3} (Extension3)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.32 EF_{SMSR} (Short message status reports)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.33 EF_{ICI} (Incoming Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.34 EF_{OCI} (Outgoing Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.35 EF_{ICT} (Incoming Call Timer)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.36 EF_{OCT} (Outgoing Call Timer)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.37 EF_{EXT5} (Extension5)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.38 EF_{CCP2} (Capability Configuration Parameters 2)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.39 EF_{eMLPP} (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

8.3.2.40 EF_{AAeM} (Automatic Answer for eMLPP Service)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.41 EF_{GMSI} (Group Identity)

This clause is expected to be defined in the release 2000 version of the present document.

8.3.2.42 EF_{Hiddenkev} (Key for hidden phone book entries)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.43 Void

8.3.2.44 EF_{BDN} (Barred dialling numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.45 EF_{EXT4} (Extension 4)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.46 EF_{CMI} (Comparison method information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.47 EF_{EST} (Enabled service table)

The programming of this EF is a test house option.

8.3.2.48 EF_{ACI} (Access point name control list)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.49 EF_{DCK} (Depersonalisation control keys)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.50 EF_{CNL} (Co-operative network list)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.51 EF_{START-HFN} (Initialisation values for Hyperframe number)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.52 EF_{THRESHOLD} (Maximum value of START)

The programming of this EF is a test house option.

8.3.2.53 EF_{OPI MNsel} (OPLMN selector)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.54 EF_{PHPI MNAT} (Preferred HPLMN Access Technology)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.55 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2.56 Void

8.3.2.57 EF_{NETPAR} (Network Parameters)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3 Contents of DFs at the USIM ADF (Application DF) level

8.3.3.1 Contents of files at the USIM SoLSA level

8.3.3.1.1 EF_{SAI} (SoLSA Access Indicator)

This clause is expected to be defined in the release 2000 version of the present document.

8.3.3.1.2 EF_{SLL} (SoLSA LSA List)

This clause is expected to be defined in the release 2000 version of the present document.

8.3.3.1.3 LSA Descriptor files

This clause is expected to be defined in the release 2000 version of the present document.

8.3.3.1.4 Contents of files at the MExE level

8.3.3.1.4.1 EF_{MExE-ST} (MExE Service table)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.1.4.2 EF_{ORPK} (Operator Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.1.4.3 EF_{ARPK} (Administrator Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.1.4.4 EF_{TPRPK} (Third Party Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.1.4.5 EF_{TKCDF} (Trusted Key/Certificates Data Files)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2 Contents of files at the DF PHONEBOOK level

8.3.3.2.1 EF_{PBR} (Phone Book Reference file)

The programming of this EF is a test house option.

8.3.3.2.2 EF_{IAP} (Index Administration Phone book)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.3 EF_{ADN} (Abbreviated dialling numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.4 EF_{EXT1} (Extension1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.5 EF_{PBC} (Phone Book Control)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.6 EF_{GRP} (Grouping file)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.7 EF_{AAS} (Additional number Alpha String)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.8 EF_{GAS} (Grouping information Alpha String)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.9 EF_{ANR} (Additional Number)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.10 EF_{SNE} (Second Name Entry)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.11 EF_{CCP1} (Capability Configuration Parameters 1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12 Phone Book Synchronisation

8.3.3.2.12.1 EF_{UID} (Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.2 EF_{PSC} (Phone book Synchronisation Counter)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.3 EF_{CC} (Change Counter)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.4 EF_{PUID} (Previous Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.13 EF_{EMAIL} (e-mail address)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.3 Contents of files at the DF GSM level (Files required for GSM Access)

8.3.3.3.1 EF_{Kc} (GSM Ciphering key Kc)

File size: 9 Bytes

Default values (HEX): Bytes 1-8: Align with Kc used by SS

Byte 9: 07

Byte 9 is set to 07 to indicate that there is no key available at the start of a test.

The bytes within this elementary file may be updated by the UE as a result of a successful authentication attempt.

8.3.3.3.2 EF_{KcGPRS} (GPRS Ciphering key KcGPRS)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.3.3 Void

8.3.3.3.4 EF_{CPBCCH} (CPBCCH Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.5 EF_{InvScan} (Investigation Scan)

The programming of this EF follows default parameter.

8.3.4 Contents of EFs at the TELECOM level

8.3.4.1 EF_{ADN} (Abbreviated dialling numbers)

The programming of this EF is a test house option. It should be noted that sufficient space should be provided on the USIM card for 101 records.

8.3.4.2 EF_{EXT1} (Extension1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.4.3 EF_{ECCP} (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

8.3.4.4 EF_{SUMF} (SetUpMenu Elements)

The programming of this EF is a test house option.

8.3.4.5 EF_{ARR} (Access rule reference)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.5 Contents of DFs at the TELECOM level

8.3.5.1 Contents of files at the DF_{GRAPHICS} level

8.3.5.1.1 EF_{IMG} (Image)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.5.1.2 Image Instance Data Files

8.3.5.2 Contents of files at the DF_{PHONEBOOK} under the DF_{TELECOM}

The programming of this EF is a test house option.

9 Default Message Contents

9.1 Default Message Contents for Signalling

9.1.1 Default RRC Message Contents (FDD)

This clause contains the default values of common messages, which unless indicated otherwise in specific clauses of TS 34.123-1, shall be transmitted and checked by the system simulator.

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements which are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

Default SYSTEM INFORMATION:

NOTE:

SYSTEM INFORMATION BLOCK TYPE 1 (except for PLMN type "GSM-MAP"), SYSTEM INFORMATION BLOCK TYPE 8, SYSTEM INFORMATION BLOCK TYPE 9, SYSTEM INFORMATION BLOCK TYPE 10, SYSTEM INFORMATION BLOCK TYPE 14, SYSTEM INFORMATION BLOCK TYPE 15 and SYSTEM INFORMATION BLOCK TYPE 16 messages are not used.

Contents of ACTIVE SET UPDATE message: AM

Information Element	Value/remark	
Message Type		
RRC transaction identifier	Arbitrarily selects one integer between 0 to 3	
Integrity check info		
- message authentication code	SS calculates the value of MAC-I for this message and	
	writes to this IE. The first/ leftmost bit of the bit string	
	contains the most significant bit of the MAC-I.	
 RRC message sequence number 	SS provides the value of this IE, from its internal counter.	
Activation time	now	
New U-RNTI	Not Present	
CN information info	Not Present	
Maximum allowed UL TX power	Not Present – use default value	
Radio link addition information	Not Present	

Information Element	Value/remark	
Radio link removal information	Not Present	
TX Diversity Mode	None	
SSDT information	Not Present	
DPC Mode	[FFS]	REL-5

Contents of ACTIVE SET UPDATE COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most
- RRC Message sequence number	significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.

Contents of ACTIVE SET UPDATE FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Refer to test requirement

Contents of CELL UPDATE message: TM

Information Element	Value/remark	Version
Message Type		
U-RNTĬ	Checked to see if it is set to the following values	
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
RRC transaction identifier	Checked to see if it is absent	
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is	
	compared against the XMAC-I value computed by SS.	
	The first/ leftmost bit of the bit string contains the most	
	significant bit of the MAC-I.	
- RRC Message sequence number	This IE is checked to see if it is present. The value is	
	used by SS to compute the XMAC-I value.	
START List	Checked to see if the 'CN domain identity' and 'START'	
	IEs are present for all CN domains supported by the UE.	
- CN domain identity	Checked to see if it is one of the supported CN domains	
- START	This IE is checked to see if it is present. The first/ leftmost	
	bit of the bit string contains the most significant bit of the	
	START.	
AM_RLC error indication (RB2, RB3 or RB4)	Checked to see if it is set to 'FALSE'	
AM_RLC error indication (RB>4)	Checked to see if it is set to 'FALSE'	
Cell update cause	See the specific test case	
Failure cause	Checked to see if it is absent	
RB timer indicator		
- T314 expired	Checked to see if it is set to 'FALSE'	
- T315 expired	Checked to see if it is set to 'FALSE'	
Establishment cause	See the specific test case	REL-5
Measured results on RACH	Not checked	

Contents of CELL UPDATE CONFIRM message: UM

Information Element	Value/remark	n
Message Type		
U-RNTI	If this message is sent on CCCH, use the following	
	values. Else, this IE is absent.	

CDNC identity	0000 0000 0001B	
- SRNC identity		
- S-RNTI	0000 0000 0000 0000 0001B	
RRC transaction identifier	Selects an arbitrary integer between 0 to 3	
Integrity check info		
- message authentication code	SS calculates the value of MAC-I for this message and	
	writes to this IE. The first/ leftmost bit of the bit string	
	contains the most significant bit of the MAC-I.	
- 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	
New H-RNTI	Not Present	REL-5
RRC State indicator	CELL_FACH	
UTRAN DRX cycle length coefficient	Not Present	
RLC re-establish indicator (RB2, RB3 and	FALSE	
RB4)		
RLC re-establish indicator (RB5 and	FALSE	
upwards)	171202	
CN information info	Not Present	
URA identity	Not Present	
RB information to release list	Not Present	
RB information to reconfigure list	Not Present	
RB information to be affected list	Not Present	
Downlink counter synchronisation info	Not Present	
UL Transport channel information common	Not Present	
for all transport channels	Not i lesent	
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	INOUT TOSEIIL	
	Not Procent	
DL Transport channel information common	Not Present	
for all transport channels	Not Propert	
Deleted TrCH information list	Not Present	
Added or Reconfigured TrCH information list	Not Present	
Frequency info	Not Present	
Maximum allowed UL TX power	Not Present	
CHOICE channel requirement	Not Present	
CHOICE mode	FDD	
- Downlink PDSCH information	Not Present	
Downlink HS-PDSCH Information	Not Present	REL-5
Downlink information common for all radio	Not Present	
links	L	
Downlink information per radio link list	Not Present	

Contents of DOWNLINK DIRECT TRANSFER message: $\ensuremath{\mathsf{AM}}$

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and
	writes to this IE. The first/ leftmost bit of the bit string
	contains the most significant bit of the MAC-I.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
CN domain identity	CS domain or PS domain
NAS message	See Specific Message Content for each test case

Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects one integer between 0 to 3
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
Activation time	now
RAB Info	
- RAB identity	0000 0001B
	The first/ leftmost bit of the bit string contains the most
	significant bit of the RAB identity.
- CN domain identity	CS domain
- NAS Synchronization Indicator	Not present
- Re-establishment timer	Use T315
Inter-system message	
- CHOICE System type	GSM
- Frequency Band	Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band"
- CHOICE GSM message	Single GSM message
- Single GSM message	GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1512). The first/ leftmost/ most significant bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case.

Contents of HANDOVER FROM UTRAN FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the same value used in the corresponding downlink HANDOVER FROM UTRAN COMMAND –GSM message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Inter-RAT handover failure	
-Inter-RAT handover failure cause	physical channel failure
Inter-system message	Not Checked

Contents of INITIAL DIRECT TRANSFER message: AM

Information Element	Value/remark	Version
Message Type		
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.	
CN domain identity	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 consists of 4 octets (32bits). This can be represented by a string of bits numbered from b0 to b31, with bit b0 being the least significant The "Routing parameter" bit string consists of bits b14 through b23 of the TMSI/ PTMSI. The first/ leftmost/ most significant bit of the bit string contains bit b23 of the TMSI/ PTMSI.	
- Entered parameter	Not checked	
NAS message	Set according to that indicated in specific message content for each test case	
START	This IE is checked to see if it is present.	
Establishment cause	See the specific test case	REL-5
Measured results on RACH	Not checked	
		1
		1

Contents of MEASUREMENT CONTROL message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an unused integer between 0 to 3
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
 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 Mode 	Periodical reporting
Additional measurement list	Not Present
CHOICE Measurement type	Intra-frequency measurement
- Intra-frequency measurement	
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Not present
- New intra-frequency cell	
- Intra-frequency cell-id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN number	FALSE
- CHOICE mode	FDD
- Primary CPICH info	D'''
- Primary scrambling code	Different from the Default setting in TS34.108 clause 6.1 (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	FALSE
 Cell synchronisation information reporting indicator 	FALSE
	TRUE
 Cell Identity reporting indicator CPICH Ec/N0 reporting indicator 	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	TALGE
Cell synchronisation information reporting indicator	FALSE
- 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	1.00.1.1000111
- 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

Contents of MEASUREMENT CONTROL FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	See the test content

Contents of MEASUREMENT REPORT message: AM

Information Element	Value/remark	Version
Message Type		
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.	
Measurement identity	1	
Measured Results		
 Intra-frequency measured results 		
- 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	
		REL-4
GSM OTD reference cell	Checked that this IE is absent	REL-4

Contents of PAGING TYPE 1 message: TM (Speech in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Conversational Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Streaming Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of PAGING TYPE 1 message: TM (Packet in PS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- P-TMSI	Use P-TMSI allocated by SS at initial attach.
BCCH modification info	Not Present

Contents of PAGING TYPE 1 message: TM (SMS in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
 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			
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.		
- RRC message sequence number	SS provides the value of this IE, from its internal counter.		
Paging cause	Terminating Conversational Call		
CN domain identity	CS domain		
Paging record type identifier	Select the same type as in the IE "Initial UE Identity" in		
	RRC CONNECTION REQUEST" message.		

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark	Version
Message Type	A1, A2, A3,		
	A4, A5, A6,		
	A7, A8, A9, A10		
RRC transaction identifier	ATO	Arbitrarily selects an integer between 0	
TATO transaction identifier		and 3	
Integrity check info		and o	
- message authentication code		SS calculates the value of MAC-I for	
		this message and writes to this IE. The	
		first/ leftmost bit of the bit string	
		contains the most significant bit of the	
DDC manage agreement assembles		MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from its internal counter.	
Integrity protection mode info		Not Present	
Ciphering mode info		Not Present	
Activation time	A1, A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256	
Activation time	A4, A5, A6,	Not Present	
	A7, A8, A9,		
	A10		
New U-RNTI		Not Present	
New C-RNTI	A1, A2, A3,	Not Present	
	A4, A7, A8,		
New C DNT	A9, A10	14040 4040 4040 4040	
New C-RNTI New DSCH-RNTI	A5, A6 A1, A2, A3,	'1010 1010 1010 1010' Not Present	
New DSCH-RNTI	A1, A2, A3, A4, A5, A6,	Not Present	
	A7, A8, A9,		
	A10		
New H-RNTI	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6,		
	A7, A8, A9,		
	A10		
RRC State indicator	A1, A2, A3, A4	CELL_DCH	
RRC State indicator	A5, A6	CELL_FACH	
RRC State indicator	A7, A8	URA_PCH	
RRC State indicator	A9, A10	CELL_PCH	
UTRAN DRX cycle length coefficient	A1, A2, A3,	Not Present	
	A4, A5, A6		
UTRAN DRX cycle length coefficient	A7, A8, A9,	3	
and the state of t	A10	N . B	
CN information info		Not Present Not Present	
URA identity Downlink counter synchronisation info		Not Present	
Frequency info	A1, A2, A3,	Not i lesent	
Troquency mile	A4, A5		
- UARFCN uplink (Nu)	<u> </u>	Reference to clause 5.1 Test	
, ,		frequencies	
- UARFCN downlink (Nd)		Reference to clause 5.1 Test	
		frequencies	
Frequency info	A6, A7, A8,	Not Present	
Maximum allowed III. TV nowar	A9, A10	33dBm	
Maximum allowed UL TX power CHOICE channel requirement	A5, A6, A7,	Not Present	
Onote channel requirement	A8, A9,	INOLITESCIIL	
	A0, A9, A10		
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info	
7	A4		
 Uplink DPCH power control info 			
- DPCCH power offset		-80dB (i.e. ASN.1 IE value of -40)	
- PC Preamble		1 frame	
- SRB delay		7 frames	
- Power Control Algorithm		Algorithm1	
- TPC step size		1dB	1

Information Element	Condition	Value/remark	Version
- Δ _{ACK}		Not Present	REL-5
- Anack		Not Present	REL-5
- Ack-Nack repetition factor		Not Present	REL-5
- Scrambling code type		Long	KEL-5
- Scrambling code type - Scrambling code number		3	
		0 (0 to 16777215)	
- Number of DPDCH		Not Present(1)	
- spreading factor		Reference to TS34.108 clause 6.10	
TEO		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	A1, A2, A3,	FDD	
	A4, A5, A6,		
	A7, A8, A9,		
	A10		
- Downlink PDSCH information	-	Not Present	
Downlink HS-PDSCH Information	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6,		5
	A7, A8, A9,		
Downlink information common for all radio links	A10		
	A1, A2, A3		
- Downlink DPCH info common for all RL		Madada	
- Timing indicator		Maintain	
 CFN-targetSFN frame offset 		Not Present	
 Downlink DPCH power control information 			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0	
 DL rate matching restriction information 		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
T IXOG OT T TOXIDIO T CONTON		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
- TFOI existence		Parameter Set	
CHOICE CE			
- CHOICE SF		Reference to TS34.108 clause 6.10	
		Parameter Set	
- DPCH compressed mode info		Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value		Not Present	
- MAC-hs reset indicator		Not Present	REL-5
Downlink information common for all radio links	A4		
 Downlink DPCH info common for all RL 			
- Timing indicator		Initialise	
- CFN-targetSFN frame offset		Not Present	
 Downlink DPCH power control information 			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0	
- DL rate matching restriction information		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
- Opticacing factor		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
- FIXEG OF FIEXIBLE POSITION			
TEOL aviators a		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
0.1010= 5=		Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
		Parameter Set	
		Not Present	
 DPCH compressed mode info 			
 DPCH compressed mode info TX Diversity mode 		None	
- TX Diversity mode		None	

Information Element	Condition	Value/remark	Version
- MAC-hs reset indicator		Not Present	REL-5
Downlink information common for all radio links	A5, A6, A7, A8, A9,	Not Present	
	A10		
Downlink information for each radio links - Choice mode	A1, A2,A3	FDD	
- Primary CPICH info		D () D ()	
- 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 FALSE	REL-5
- Serving HS-DSCH radio link indicator		FALSE	KEL-5
- Downlink DPCH info for each RL - CHOICE mode		FDD	
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation		I filliary of fortillay be asea	
- DPCH frame offset		Set to value : Default DPCH Offset Value (as currently stored in SS) mod	
O L ODIOLL: (38400	
- Secondary CPICH info		Not Present	
- DL channelisation code		5	
 Secondary scrambling code Spreading factor 		5 Reference to TS34.108 clause 6.10	
		Parameter Set	
- Code number - Scrambling code change		0 No change	
- TPC combination index		No change 0	
- SSDT Cell Identity		Not Present	
- Closed loop timing adjustment mode		Not Present	
- SCCPCH information for FACH		Not Present	
Downlink information for each radio links	A4		
- Choice mode		FDD	
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108	
		clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	
- Serving HS-DSCH radio link indicator		FALSE	REL-5
- Downlink DPCH info for each RL		EDD	
- CHOICE mode		FDD Primary CPICH may be used	
- Primary CPICH usage for channel estimation		Primary CPICH may be used	
- DPCH frame offset		Set to value : Default DPCH Offset	
Occasion OBIOLIC		Value mod 38400	
- Secondary CPICH info		Not Present	
DL channelisation code Secondary scrambling code		5	
- Secondary scrambling code - Spreading factor		Reference to TS34.108 clause 6.10	
Codo purel· - :		Parameter Set	
- Code number		0 No change	
- Scrambling code change - TPC combination index		No change 0	
- SSDT Cell Identity		Not Present	
- Closed loop timing adjustment mode		Not Present	
- SCCPCH information for FACH		Not Present	
- Downlink information for each radio link	A5		
- Choice mode		FDD	
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108	
PD00H W 0H0 P0H (clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	ם ו
- Serving HS-DSCH radio link indicator		FALSE Not Propert	REL-5
- Downlink DPCH info for each RL - SCCPCH Information for FACH		Not Present Not Present	
- Downlink information for each radio link	A6, A7, A8,	Not Present Not Present	1
- DOWNMIN INIONNALION TO EACH TAULO IIIN	A6, A7, A6, A9, A10	INOLI ICOCIIL	
	1,10,710	I .	i

Condition	Explanation	
A1	This IE need for "Non speech in CS"	
A2	This IE need for "Speech in CS"	
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"	
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"	
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"	
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"	
A7	This IE need for 'Packet to URA_PCH from CELL_FACH in PS'	
A8	This IE need for 'Packet to URA_PCH from CELL_DCH in PS'	
A9	This IE need for 'Packet to CELL_PCH from CELL_FACH in PS'	
A10	This IE need for 'Packet to CELL_PCH from CELL_DCH in PS'	

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked
CHOICE mode	FDD
COUNT-C activation time	Not checked
Radio bearer uplink ciphering activation time info	Not checked
Uplink counter synchronisation info	Not present

Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement

Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark	Version
Message Type	A1, A2, A3, A4, A5, A6,		
	A4, A5, A6, A7, A8,		
	A11		55. 5
	, A9, A10		REL-5
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	
Integrity check info		and 5	
- message authentication code		SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from its internal counter.	
Integrity protection mode info Ciphering mode info		Not Present Not Present	
Activation time	A1, A2, A3, A11		
	, A9		REL-5
Activation time	A4, A5, A6, A7, A8	Not Present	
New U-RNTI	A10	Not Present	REL-5
New O-RNTI	A1, A2, A3, A4, A5, A6, A7, A8,	Not Present	
	A11		
	, A9, A10		REL-5
New C-RNTI	A1, A2, A3, A4, A7, A8,	Not Present	
	A11		
	, A9, A10		REL-5
New C-RNTI	A5, A6	'1010 1010 1010 1010'	
New DSCH-RNTI	A1, A2, A3, A4, A5, A6,	Not Present	
	A7, A8,		
	A11 , A9, A10		REL-5
New H-RNTI		Not Present	REL-5
TOWN THAT	A4, A5, A6,	THE THOUSEN	11220
	A7, A8, A11		
New H-RNTI	A9, A10	'1010 1010 1010 1010'	REL-5
RRC State indicator	A1, A2, A3,	CELL_DCH	
	A4, A7, A8, A11		
	, A9, A10		REL-5
RRC State indicator	A5, A6	CELL_FACH	
UTRAN DRX cycle length coefficient	A1, A2, A3, A4, A5, A6,	Not Present	
	A7, A8,		
	A11 , A9, A10		REL-5
ON information info	, A3, A10	Not Brooms	IVEL-0
CN information info URA identity		Not Present Not Present	
- Signalling RB information to setup		Not Present	
 RAB information for setup RAB info 	A1, A7		
- RAB into - RAB identity		0000 0001B	
•		The first/ leftmost bit of the bit string	
		contains the most significant bit of the RAB identity.	
- CN domain identity		CS domain	

Information Element	Condition	Value/remark	Version
- NAS Synchronization Indicator		Not Present	
- Re-establishment timer		useT314	
- RB information to setup			
- RB identity		10	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		TM RLC	
- Transmission RLC discard		Not Present	
- Segmentation indication		FALSE	
- CHOICE Downlink RLC mode		TM RLC	
- Segmentation indication		FALSE	
- RB mapping info			
- Information for each multiplexing option		Not Present	
 RLC logical channel mapping indicator Number of uplink RLC logical channels 		1	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- Logical channel identity		Not Present	
- CHOICE RLC size list		Configured	
- MAC logical channel priority		7	
- Downlink RLC logical channel info		·	
- Number of downlink RLC logical		1	
channels			
- Downlink transport channel type		DCH	
 DL DCH Transport channel identity 		6	
 DL DSCH Transport channel identity 		Not Present	
 Logical channel identity 		Not Present	
- RAB information for setup	A2, A8		
- RAB info			
- RAB identity		0000 0001B	
		The first/ leftmost bit of the bit string	
		contains the most significant bit of the	
CN domain identity		RAB identity. CS domain	
- CN domain identity - NAS Synchronization Indicator		Not Present	
- Re-establishment timer		useT314	
- RB information to setup		4361314	
- RB identity		10	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		TM RLC	
- Transmission RLC discard		Not Present	
- Segmentation indication		FALSE	
- CHOICE Downlink RLC mode		TM RLC	
- Segmentation indication		FALSE	
- RB mapping info			
- Information for each multiplexing option			
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1 DCH	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1 Not Present	
Logical channel identityCHOICE RLC size list		Configured	
- MAC logical channel priority		6	
- Downlink RLC logical channel info		 ~	
- Number of downlink RLC logical		1	
channels			
- Downlink transport channel type		DCH	
- DL DCH Transport channel identity		6	
- DL DSCH Transport channel identity		Not Present	
- Logical channel identity		Not Present	
- RB identity		11	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		TM RLC	
- Transmission RLC discard		Not Present	
- Segmentation indication		FALSE	

Information Element	Condition	Value/remark	Version
- CHOICE Downlink RLC mode		TM RLC	
 Segmentation indication 		FALSE	
- RB mapping info			
- Information for each multiplexing option		Not Present	
RLC logical channel mapping indicator 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		1	
channels - Downlink transport channel type		DCH	
- DL DCH Transport channel identity		7	
- DL DSCH Transport channel identity		Not Present	
- Logical channel identity		Not Present	
- RB identity		12	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode - Transmission RLC discard		TM RLC Not Present	
- Segmentation indication		FALSE	
- CHOICE Downlink RLC mode		TM RLC	
- Segmentation indication		FALSE	
- RB mapping info			
 Information for each multiplexing option 			
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1 DCH	
Uplink transport channel type 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		1	
channels - 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	A3, A4, A5,		
5.5.4	A6	, <u></u>	
- RAB info		(AM DTCH for PS domain)	
- RAB identity		0000 0101B The first/ leftmost bit of the bit string	
		contains the most significant bit of the	
		RAB identity.	
- CN domain identity		PS domain	
 NAS Synchronization Indicator 		Not Present	
- Re-establishment timer		useT315	
- RB information to setup		20	
- RB identity - PDCP info		20	
- Support for lossless SRNS relocation		FALSE	
- Max PDCP SN window size		Not present	
- PDCP PDU header		Absent	
- Header compression information		Not present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		AM RLC	
- Transmission RLC discard - CHOICE SDU discard mode		No Discard	
- MAX_DAT		15	
- Transmission window size		128	
- Timer_RST		500	
- Max_RST		4	

Information Element	Condition	Value/remark	Version
- Polling info			
- Timer_poll_prohibit		200	
- Timer_poll		200	
- Poll_PDU		Not Present	
- Poll_SDU - Last transmission PDU poll		TRUE	
- Last retransmission PDU poll		TRUE	
- Poll_Windows		99	
- Timer_poll_periodic		Not Present	
- CHOICE Downlink RLC mode		AM RLC	
- In-sequence delivery		TRUE	
- Receiving window size		128	
- Downlink RLC status info		200	
- Timer_status_prohibit - Timer_EPC		Not Present	
- Missing PDU indicator		TRUE	
- Timer_STATUS_periodic		Not Present	
- RB mapping info			
 Information for each multiplexing option 		2 RBMuxOptions	
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1	
Uplink transport channel type UL Transport channel identity		DCH 1	
- Logical channel identity		Not Present	
- CHOICE RLC size list		Configured	
- MAC logical channel priority		8	
- Downlink RLC logical channel info			
- Number of downlink RLC logical		1	
channels			
- Downlink transport channel type		DCH	
DL DCH Transport channel identity DL DSCH Transport channel identity		6 Not Present	
- De Doch Transport charmer identity - Logical channel identity		Not Present	
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1	
 Uplink transport channel type 		RACH	
- UL Transport channel identity		Not Present	
- Logical channel identity		7	
- CHOICE RLC size list		Explicit list Reference to TS34.108 clause 6	
- RLC size index		Parameter Set	
- MAC logical channel priority		8	
- Downlink RLC logical channel info		Ğ	
- Number of downlink RLC logical		1	
channels			
- Downlink transport channel type		FACH	
- DL DCH Transport channel identity		Not Present	
DL DSCH Transport channel identity Logical channel identity		Not Present 7	
- RAB information for setup	A9		REL-5
- RAB info	/.0	(high-speed AM DTCH for PS domain)	
- RAB identity		0000 0110B	
·		The first/ leftmost bit of the bit string	
		contains the most significant bit of the	
011		RAB identity.	
- CN domain identity		PS domain	
- NAS Synchronization Indicator - Re-establishment timer		Not Present useT315	
- Re-establishment timer - RB information to setup		u361313	
- RB identity		23	
- 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 - CHOICE Uplink RLC mode		RLC info AM RLC	
1 Official opinik (LO inload	I	/ WINEO	ı l

Information Element	Condition	Value/remark	Version
- Transmission RLC discard			
- CHOICE SDU discard mode		No Discard	
- MAX_DAT		15	
- Transmission window size		128	
- Timer_RST		500	
- Max_RST		4	
- Polling info		400	
- Timer_poll_prohibit		100	
- Timer_poll		100	
- Poll_PDU		Not Present	
- Poll_SDU		1 TRUE	
- Last transmission PDU poll		TRUE	
- Last retransmission PDU poll - Poll_Windows		99	
- Timer_poll_periodic		Not Present	
- CHOICE Downlink RLC mode		AM RLC	
- In-sequence delivery		TRUE	
- Receiving window size		768	
- Downlink RLC status info		700	
- Timer_status_prohibit		100	
- Timer_Status_profilbit		Not Present	
- Missing PDU indicator		TRUE	
- Timer_STATUS_periodic		Not Present	
- RB mapping info			
- Information for each multiplexing option		3 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 		1	
channels			
- Downlink transport channel type		DCH	
- DL DCH Transport channel identity		6	
- DL DSCH Transport channel identity		Not Present	
- DL HS-DSCH MAC-d flow identity		Not Present	
- Logical channel identity		Not Present	
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1 DCU	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1 Not Present	
- Logical channel identity - CHOICE RLC size list		Configured	
- MAC logical channel priority		8	
- Downlink RLC logical channel info			
- Number of downlink RLC logical		1	
channels		·	
- Downlink transport channel type		HS-DSCH	
- DL DCH Transport channel identity		Not Present	
- DL DSCH Transport channel identity		Not Present	
- DL HS-DSCH MAC-d flow identity		0	
- Logical channel identity		Not Present	
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1	
 Uplink transport channel type 		RACH	
- UL Transport channel identity		Not Present	
- Logical channel identity		7	
- CHOICE RLC size list		Explicit list	
- RLC size index		Reference to TS34.108 clause 6	
		Parameter Set	
 MAC logical channel priority 		8	
- Downlink RLC logical channel info			
- Number of downlink RLC logical		1	
channels			

- Downlink transport channel type - D. D.CH Transport channel identity - D. D. SCH Transport channel identity - RAB information for setup - RAB information for setup - RAB information identity - CN domain identity - NAS Synchronization Indicator - Re information to setup - RB identity - RB	Information Element	Condition	Value/remark	Version
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- Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Downlink transport channel type - DL DCH Transport channel identity - Downlink transport channel identity - Downlink transport channel identity - Not present 768 100 Not Present 1 RBMuxOption Not present 1 Not present Configured 8 8 1 1 1 1 1 1 1 1 1 1 1				
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- Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DUDCH Transport channel identity - DUDCH Transport channel identity - Townlink transport channel type - DL DCH Transport channel identity - Not Present Not present - Not Present - Not present - Not Present - Configured - 1 - Not Present				
- 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 - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DCH Transport channel identity - Not present 1 Not Present 1 Not Present 1 Not Present 1 Coffigured 8 - DCH 1 Not Present 1 HS-DSCH Not Present 1 Not Present 1 HS-DSCH Not present			100	
- 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 - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DCH Transport channel identity - TRUE Not Present - Not present - Not Present - Configured - Not Present - Configured - Not Present - Not P				
- RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - RBMuxOption Not present 1 DCH 1 Not Present Configured 8 - HS-DSCH Not present HS-DSCH Not present	 Missing PDU indicator 		_	
- Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity 1 RBMuxOption Not present 1 DCH 1 Configured 8 1 Configured 8 HS-DSCH Not present			Not Present	
- RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity Not present 1 Not present 1 Configured 8 1 HS-DSCH Not present	- RB mapping info			
- RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity Not present 1 Not present 1 Configured 8 1 HS-DSCH Not present				
- Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity 1 Not Present Configured 8 1 1 1 Not Present Configured 1 HS-DSCH Not present	 Information for each multiplexing option 		1 RBMuxOption	
- Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity 1 Not Present Configured 8 1 1 1 Not Present Configured 1 HS-DSCH Not present				
- Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity 1 Not Present Configured 8 1 1 1 Not Present Configured 1 HS-DSCH Not present	- RLC logical channel mapping indicator		Not present	
- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity DCH 1 Not Present Configured 8 1 the provided of the p			The state of the s	
- UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity 1 Not Present Configured 8 1 1 Chanfigured 1 1 HS-DSCH Not present				
- Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity Not Present Configured 8 1 HS-DSCH Not present				
- MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity 8 1 HS-DSCH Not present			Not Present	
- Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Downlink transport channel identity	- CHOICE RLC size list		Configured	
- Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity 1 HS-DSCH Not present			8	
channels - Downlink transport channel type - DL DCH Transport channel identity HS-DSCH Not present				
- Downlink transport channel type - DL DCH Transport channel identity HS-DSCH Not present			1	
- DL DCH Transport channel identity Not present				
- DL DSCH Transport channel identity Not present				
	- DL DSCH Transport channel identity	l	Not present	ı l

Information Element	Condition	Value/remark	Version
- DL HS-DSCH MAC-d flow identity		0	
- Logical channel identity		Not Present	
- RAB information for setup	A11		
- RAB info		(AM DTCH for PS domain)	
- RAB identity		0000 0101B	
		The first/ leftmost bit of the bit string	
		contains the most significant bit of the RAB identity.	
- CN domain identity		PS domain	
- NAS Synchronization Indicator		Not Present	
- Re-establishment timer		useT315	
- RB information to setup			
- RB identity		20	
- PDCP info			
- Support for lossless SRNS relocation		FALSE	
- Max PDCP SN window size		Not present	
- PDCP PDU header - Header compression information		Absent Not present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		AM RLC	
- Transmission RLC discard			
- CHOICE SDU discard mode		No Discard	
- MAX_DAT		15	
- Transmission window size		128	
- Timer_RST		500	
- Max_RST - Polling info		4	
- Timer_poll_prohibit		200	
- Timer_poll_profilibit		200	
- Poll_PDU		Not Present	
- Poll_SDU		1	
 Last transmission PDU poll 		TRUE	
- Last retransmission PDU poll		TRUE	
- Poll_Windows		99	
- Timer_poll_periodic - 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 uplink RLC logical channels		1	
 Uplink transport channel type 		DCH	
 UL Transport channel identity 		4	
- Logical channel identity		Not Present	
- CHOICE RLC size list		Configured	
- MAC logical channel priority		8	
- Downlink RLC logical channel info - Number of downlink RLC logical		1	
channels			
- Downlink transport channel type		DCH	
 DL DCH Transport channel identity 		9	
 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 Uplink transport channel type 		1 RACH	
UL Transport channel type 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	

Information Element	Condition	Value/remark	Version
- MAC logical channel priority		8	
Downlink RLC logical channel info Number of downlink RLC logical		1	
channels			
- Downlink transport channel type		FACH Not Present	
DL DCH Transport channel identity DL DSCH Transport channel identity		Not Present	
- Logical channel identity		7	
RB information to be affected	A1, A2, A3, A4, A5, A6,	Not Present	
	A7, A8,		
	A11		REL-5
	, A9, A10		KEL-5
Downlink counter synchronisation info	A1, A2, A3, A4, A5, A6,	Not Present	
	A7, A8,		
	A11 , A9, A10		REL-5
	, ,		REL-5
UL Transport channel information for all transport channels	A1, A2, A3, A4, A5, A6,		
	A7, A8,		
	A11 , A9, A10		REL-5
- PRACH TFCS	, , , , , , , , , , , , , , , , , , , ,	Not Present	11220
- CHOICE mode		FDD	
- TFC subset		Not Present	
- UL DCH TFCS - CHOICE TFCI signalling		Normal	
- TFCI Field 1 information			
- CHOICE TFCS representation - TFCS complete reconfigure		Complete reconfiguration	
information			
- CHOICE CTFC Size		Number of bits used must be enough to cover all combinations of CTFC from	
		TS34.108 clause 6.10.2.4 Parameter	
0750 : (Set.	
- CTFC information		This IE is repeated for TFC numbers and reference to TS34.108 clause	
		6.10.2.4 Parameter Set	
- CTFC		Reference to TS34.108 clause 6.10.2.4 Parameter Set	
- Power offset information			
- CHOICE Gain Factors		Computed Gain Factors(The last TFC	
- Gain factor βc		is set to Signalled Gain Factors) 11 (below 64 kbps)	
<u>'</u>		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 - Power offset P p-m		FDD Not Present	
Deleted UL TrCH information	A1, A2, A3,	Not Present	
	A4, A5, A6, A7, A8,		
	A11		
	, A9, A10		REL-5
Added or Reconfigured UL TrCH information	A1, A3 A4,	1 DCH added, 1 DCH reconfigured (if	
	A5, A6, A7 , A9, A10	from cell_DCH) OR 2 DCHs added (if from cell_FACH)	REL-5
- Uplink transport channel type		DCH	
Opinik transport charmer type	I	DOI1	<u> </u>

Information Element	Condition	Value/remark	Version
- UL Transport channel identity	001141111111	1	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information			
- RLC Size		Reference to TS34.108 clause 6.10	
- Number of TBs and TTI List		Parameter Set	
- Transmission Time Interval		(This IE is repeated for TFI number.) Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
Transport Stocks		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
T () :		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
- Coding Nate		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Uplink transport channel type		DCH	
- UL Transport channel identity		5	
- TFS - CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		Dedicated transport charmers	
- RLC Size		Reference to TS34.108 clause 6.10	
		Parameter Set	
 Number of TBs and TTI List 		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
CHOICE Logical Channel list		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	
Data mataking attailanta		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
0110 3120		Parameter Set	
Added or Reconfigured UL TrCH information	A11	1 DCH added for DTCH	
- Uplink transport channel type		DCH	
- UL Transport channel identity		4	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information	1	Deference to TCO4 400 slaves 0.40	
- RLC Size		Reference to TS34.108 clause 6.10	
- Number of TBs and TTI List	1	Parameter Set (This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
Coding Det-	1	Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
- Rate matching attribute	1	Parameter Set Reference to TS34.108 clause 6.10	
- Nate matering attribute		Parameter Set	
	1	i didiliotoi oot	

Information Element	Condition	Value/remark	Version
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set	
Added or Reconfigured UL TrCH information	A2, A8	4 TrCHs(DCH for DCCH and 3DCHs for DTCH)	
- Uplink transport channel type - UL Transport channel identity - TFS		DCH 5	
- CHOICE Transport channel type - Dynamic Transport format information		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set	
Number of TBs and TTI List 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 Set	
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set	
- Uplink transport channel type - UL Transport channel identity - TFS		DCH 1	
- CHOICE Transport channel type - Dynamic Transport format information		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set	
 Number of TBs and TTI List Transmission Time Interval 		(This IE is repeated for TFI number.) Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set	
 CHOICE Logical Channel list Semi-static Transport Format information 		All	
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set	
 Uplink transport channel type UL Transport channel identity TFS 		DCH 2	
CHOICE Transport channel typeDynamic 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		All	
- Semi-static Transport Format information - Transmission time interval		Reference to TS34.108 clause 6.10	
- Type of channel coding		Parameter Set Reference to TS34.108 clause 6.10 Parameter Set	

Information Element	Condition	Value/remark	Version
- Coding Rate		Reference to TS34.108 clause 6.10	-
		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
000 -:		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
- Uplink transport channel type		Parameter Set DCH	
- UL Transport channel identity		3	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
 Dynamic Transport format information 			
- RLC Size		Reference to TS34.108 clause 6.10	
N. J. (TD. LTTLL)		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.) Not Present	
- Transmission Time Interval - Number of Transport blocks		Reference to TS34.108 clause 6.10	
- Number of Transport blocks		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
Coding Poto		Parameter Set Reference to TS34.108 clause 6.10	
- Coding Rate		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
Trails matering annuals		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
		Parameter Set	
CHOICE mode	A1, A2, A3,	FDD	
	A4, A5, A6,		
	A7, A8,		
	A11 , A9, A10		REL-5
	, A9, A10		NLL-3
- CPCH set ID		Not Present	
- Added or Reconfigured TrCH		Not Present	
information for DRAC list			
DL Transport channel information common for	A1, A2, A7,		
all transport channel	A1, A2, A7,		
- SCCPCH TFCS	7.0	Not Present	
- CHOICE mode		FDD	
- CHOICE DL parameters		SameasUL	
DL Transport channel information common for	A3, A4, A5,		
all transport channel	A6, A11		
00000117700	, A9, A10		REL-5
- SCCPCH TFCS		Not Present	
- CHOICE mode - CHOICE DL parameters		FDD Explicit	
- DL DCH TFCS		Lapilot	
- 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	
- CTFC information		Parameter Set. This IE is repeated for TFC numbers	
- CTFC IIIIOIIIIauoii		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	
	_		

Information Element	Condition	Value/remark	Version
Deleted DL TrCH information	A1, A2, A3,	Not Present	
	A4, A5, A6,		
	A7, A8 , A9, A10		REL-5
			INEL-5
Added or Reconfigured DL TrCH information	A1	1 DCH added, 1 DCH reconfigured	
- Downlink transport channel type		DCH 6	
 DL Transport channel identity CHOICE DL parameters 		Same as UL	
Uplink transport channel type		DCH	
- UL TrCH identity		1	
- DCH quality target			
- BLER Quality value		-2.0	
- Downlink transport channel type		DCH 10	
 DL Transport channel identity CHOICE DL parameters 		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target			
- BLER Quality value		-2.0	
Added or Reconfigured DL TrCH information	A3, A4, A5,	2 TrCHs(DCH for DCCH and DCH for	
- Downlink transport channel type	A6, A7	DTCH) 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 Downlink transport channel type 		-2.0 DCH	
- DL Transport channel identity		6	
- CHOICE DL parameters		Explicit	
- TFS		•	
- CHOICE Transport channel type		Dedicated transport channel	
- Dynamic transport format information		Reference to TS34.108 clause 6.10	
- RLC Size		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
 Number of Transport blocks 		Reference to TS34.108 clause 6.10	
		Parameter Set	
 CHOICE Logical Channel list Semi-static Transport Format information 		All	
- Transmission time interval		Reference to TS34.108 clause 6.10	
Transmission time interval		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
,,		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
- Rate matching attribute		Parameter Set Reference to TS34.108 clause 6.10	
rate matering attribute		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
		Parameter Set	
- DCH quality target		2.0	
- BLER Quality value Added or Reconfigured DL TrCH information	A2, A8	-2.0 4 TrCHs(DCH for DCCH and 3DCHs	
Adda of Recorniguled DE HOIT Information	, , , , , , ,	for DTCH)	
- Downlink transport channel type		DCH	
 DL Transport channel identity 		10	
- CHOICE DL parameters		Same as UL	
 Uplink transport channel type UL TrCH identity 		DCH 5	
- DCH quality target		5	
- BLER Quality value		2.0	
 Downlink transport channel type 		DCH	
 DL Transport channel identity 		6	
- CHOICE DL parameters		Explicit	
- TFS			

Information Element	Condition	Value/remark	Version
- CHOICE Transport channel type		Dedicated transport channel	
 Dynamic transport format information 			
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Dynamic transport format information		(**************************************	
- Transmission Time Interval		Not Present	
		Reference to TS34.108 clause 6.10	
- Number of Transport blocks			
011010=1 1 101		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	
. yp a ar ariamina a amig		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
- Couling Nate			
D		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	
		I -	
- DL Transport channel identity		7	
- CHOICE DL parameters		Explicit	
- TFS			
- CHOICE Transport channel type		Dedicated transport channel	
- Dynamic transport format information		·	
- RLC Size		Reference to TS34.108 clause 6.10	
1120 0120		Parameter Set	
- Number of TBs and TTI List			
		(This IE is repeated for TFI number.)	
- Dynamic transport format information		l N . B	
- 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	
- Transmission time interval		Parameter Set	
Towns of showned and in a			
- 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	
9		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
OI VO DIEC		Parameter Set	
DCH quality torque		। वावागदादा उद्दा	
- DCH quality target		N . B	
- BLER Quality value		Not Present	
- Downlink transport channel type		DCH	
- DL Transport channel identity		8	
- CHOICE DL parameters		Explicit	
- TFS		·	
- CHOICE Transport channel type		Dedicated transport channel	
- Dynamic transport format information		2 3 3 3 4 5 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	
- RLC Size		Reference to TS34.108 clause 6.10	
- NEO SIZE			
		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	
- CHOICE Logical Channel list		All	
		\[\sigma_{\text{ii}} \]	
- Semi-static Transport Format information		D-f	
- Transmission time interval		Reference to TS34.108 clause 6.10	
		Parameter Set	

Information Element	Condition	Value/remark	Version
	Condition	Reference to TS34.108 clause 6.10	version
- Type of channel coding			
Coding Rate		Parameter Set Reference to TS34.108 clause 6.10	
- Coding Rate		Parameter Set	
Poto motohing attribute		Reference to TS34.108 clause 6.10	
- Rate matching attribute			
000 :		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
DOLL III (Parameter Set	
- DCH quality target		Not Decout	
- BLER Quality value	10	Not Present	DE: -
Added or Reconfigured DL TrCH information	A9	3 TrCHs (DCH for DCCH and DCH plus	REL-5
5		HS-DSCH for DTCH)	
- Downlink transport channel type		DCH	
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target			
- BLER Quality value		-2.0	
- Downlink transport channel type		DCH	
- DL Transport channel identity		6	
- CHOICE DL parameters		Explicit	
- TFS		5 5 6 6	
- CHOICE Transport channel type		Dedicated transport channel	
- Dynamic transport format information		D (T004 100 1	
- 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	
01101051 1 101 1111		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
T ()		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
Data matabiga attaibuta		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
0.00		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
DCH quality target		Parameter Set	
- DCH quality target		2.0	
- BLER Quality value	1	-2.0 HS-DSCH	
- Downlink transport channel type	1	Not Present	
DL Transport channel identity CHOICE DL parameters		HS-DSCH	
- HARQ Info	1		
- HARQ INIO - Number of Processes	1	6	
- CHOICE Memory Partitioning			
- CHOICE Memory Partitioning - Added or reconfigured MAC-d flow	1	Implicit	
- MAC-hs queue to add or reconfigure	1	(one queue)	
list		(one queue)	
- MAC-hs queue ld		0	
- MAC-d Flow Identity		0	
- MAC-a Flow Identity		50	
- 11 - MAC-hs window size		16	
- MAC-d PDU size Info	1	10	
- MAC-d PDU size		336	
- MAC-d PDU Size - MAC-d PDU size index		0	
- MAC-d PD0 size index - MAC-hs queue to delete list		I -	
- MAC-ris queue to delete list - DCH quality target		Not present	
Added or Reconfigured DL TrCH information	A10	Not present 2 TrCHs (DCH for DCCH and HS-	REL-5
Added of Neconfigured DL TION INIOINIATION	710	DSCH for DTCH)	VET-9
- Downlink transport channel type		DCH	
- Downlink transport charmer type	1	1 2011	I

Information Element	Condition	Value/remark	Version
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target			
- BLER Quality value		-2.0	
- Downlink transport channel type		HS-DSCH	
- DL Transport channel identity		Not Present	
- CHOICE DL parameters		HS-DSCH	
- HARQ Info			
- Number of Processes		6	
- CHOICE Memory Partitioning		Implicit	
 Added or reconfigured MAC-d flow 		·	
 MAC-hs queue to add or reconfigure 		(one queue)	
list			
- MAC-hs queue Id		0	
- MAC-d Flow Identity		0	
- T1		50	
- MAC-hs window size		16	
- MAC-d PDU size Info			
- MAC-d PDU size		336	
- MAC-d PDU size index		0	
 MAC-hs queue to delete list 		Not present	
- DCH quality target		Not present	
Added or Reconfigured DL TrCH information	A11	1 DCH for DTCH	
- Downlink transport channel type		DCH	
- DL Transport channel identity		9	
- CHOICE DL parameters		Explicit	
- TFS			
 CHOICE Transport channel type 		Dedicated transport channel	
 Dynamic transport format information 			
- RLC Size		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
 Dynamic transport format information 			
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
		Parameter Set	
- DCH quality target			
- BLER Quality value		-2.0	
Frequency info	A1, A2, A3,		
	A4, A5, A7,		
	A8, 11		
	, A9, A10		REL-5
LIADECN unlink (Nu)		Poforonco to clause 5 1 Test	
- UARFCN uplink (Nu)		Reference to clause 5.1 Test	
		frequencies if frequency is different	
		from the current frequency otherwise	
LIADECNI decordinate (ALA)		set to Not Present.	
- UARFCN downlink (Nd)		Reference to clause 5.1 Test	
		frequencies if frequency is different	
		from the current frequency otherwise	
Francisco	A.C.	set to Not Present.	1
Frequency info	A6	Not Present	1

Information Element	Condition	Value/remark	Version
Maximum allowed UL TX power	A1, A2, A3,	33dBm	
	A4, A7, A8,		
	A11		DEL 6
	, A9, A10		REL-5
Maximum allowed UL TX power	A5, A6	Not Present	
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info	
	A4, A7, A8, A11		
- Uplink DPCH power control info	AII		
- DPCCH power offset		-80dB (i.e. ASN.1 IE value of -40)	
- PC Preamble		1 frame	
- SRB delay		7 frames	
- Power Control Algorithm		Algorithm1	
- TPC step size		1dB	
- Δ_{NACK}		Not Present	REL-5
- ANACK		Not Present	REL-5
- Ack-Nack repetition factor		Not Present	REL-5
- Scrambling code type		Long	
 Scrambling code number Number of DPDCH 		0 (0 to 16777215) Not Present(1)	
- spreading factor		Reference to TS34.108 clause 6.10	
oproduing ractor		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	
CHOICE channel requirement	AO A10	Parameter Set	REL-5
CHOICE channel requirement - Uplink DPCH power control info	A9, A10	Uplink DPCH info	KEL-3
- DPCCH power offset		-6dB	
- PC Preamble		1 frame	
- SRB delay		7 frames	
- Power Control Algorithm		Algorithm1	
- TPC step size		1dB	
- Δ _{ACK}		3	
- Δ _{NACK}		3	
- Ack-Nack repetition factor		1	
 Scrambling code type 		Long	
 Scrambling code number 		0 (0 to 16777215)	
- Number of DPDCH		Not Present(1)	
 spreading factor 		Reference to TS34.108 clause 6.10	
TFOI aviata:		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set	
- Number of FBI bit		Reference to TS34.108 clause 6.10	
Hambor of For bit		Parameter Set	
- Puncturing Limit		Reference to TS34.108 clause 6.10	
		Parameter Set	
CHOICE channel requirement	A5,A6	Not Present	
CHOICE Mode	A1, A2, A3,	FDD	
	A4, A5, A6,		
	A7, A8,		
	A11 , A9, A10		REL-5
	, 79, 710		INEL-3
- Downlink PDSCH information	1	Not Present	
Downlink information common for all radio links	A1, A2, A3,		
- Downlink DPCH info common for all RL	A11		
- Timing indicator		Maintain	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control			
information			
- DPC mode		0 (single)	

Information Element	Condition	Value/remark	Version
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0	
- DL rate matching restriction information		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
oproduing factor		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
- Fixed of Flexible Position			
TEOL		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE mode		FDD	
- DPCH compressed mode info		Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value	1.0	Not Present	DE: -
Downlink information common for all radio links	A9		REL-5
 Downlink DPCH info common for all RL 			
- Timing indicator		Maintain	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control	-		
information	1		
- DPC mode		0 (single)	
- CHOICE mode	<u></u>	FDD	<u> </u>
- Power offset PPilot-DPDCH		0	
- DL rate matching restriction information		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
- Spreading factor			
		Parameter Set	
 Fixed or Flexible Position 		Reference to TS34.108 clause 6.10	
		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
- OHOIOL OI		Parameter Set	
CUOICE made			
- CHOICE mode		FDD	
- DPCH compressed mode info		Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value		Not Present	
- MAC-hs reset indicator		TRUE	
	A 4 A 7 A 0	INOL	
Downlink information common for all radio links	A4,A7,A8		
 Downlink DPCH info common for all RL 			
 Timing indicator 		Initialise	
 CFN-targetSFN frame offset 		Not Present	
- Downlink DPCH power control			
information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0 Not Droomt	
- 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	
11 01 0/10100		Parameter Set	
CHOICE SE		Reference to TS34.108 clause 6.10	
- CHOICE SF			
0110105		Parameter Set	
- CHOICE mode		FDD	
 DPCH compressed mode info 		Not Present	
- TX Diversity mode		None	
		Not Present	
 SSDT information 			1
		Arbitrary set to value 0306688 by sten	
SSDT informationDefault DPCH Offset Value		Arbitrary set to value 0306688 by step	
	A10	Arbitrary set to value 0306688 by step of 512	REL-5

Information Element	Condition	Value/remark	Version
- Timing indicator		Initialise	
 CFN-targetSFN frame offset 		Not Present	
 Downlink DPCH power control 			
information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset PPilot-DPDCH		0	
 DL rate matching restriction information 		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE mode		FDD	
 DPCH compressed mode info 		Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step	
		of 512	
- MAC-hs reset indicator		TRUE	
Downlink HS-PDSCH Information	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6,		
	A7, A8,		
	A11		
Downlink HS-PDSCH Information	A9, A10		REL-5
- HS-SCCH Info			
- CHOICE mode		FDD	
- DL Scrambling Code		Not present	
- HS-SCCH Channelisation Code			
Information			
 HS-SCCH Channelisation Code 		1	
- Measurement Feedback Info			
- CHOICE mode		FDD	
- POhsdsch		6 dB	
- CQI Feedback cycle, k		4 ms	
 CQI repetition factor 		1	
- Δ_{CQI}		5 (corresponds to 0dB in relative power	
		offset)	
- CHOICE mode		FDD (no data)	
Downlink information common for all radio links	A5,A6	Not Present	
Downlink information for each radio link list	A1, A2, A3,		
	A4, A7, A8,		
	A11		
- Downlink information for each radio link			
- Choice mode		FDD	
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108	
		clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	
 Serving HS-DSCH radio link indicator 		FALSE	REL-5
- Downlink DPCH info for each RL			
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation			
- DPCH frame offset		Set to value Default DPCH Offset Value	
		(as currently stored in SS) mod 38400	
- Secondary CPICH info		Not Present	
- DL channelisation code			
- Secondary scrambling code		1	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Code number		0	
- Scrambling code change		Not Needed	
 TPC combination index 		0	

Information Element	Condition	Value/remark	Version
- SSDT Cell Identity		Not Present	
 Closed loop timing adjustment mode 		Not Present	
 SCCPCH information for FACH 		Not Present	
Downlink information for each radio link list	A5		
 Downlink information for each radio link 			
- Choice mode		FDD	
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	
- Serving HS-DSCH radio link indicator		FALSE	REL-5
- Downlink DPCH info for each RL		Not present	IXLL-3
- SCCPCH information for FACH		Not Present	
Downlink information for each radio link list	A9, A10	Not Flesent	REL-5
Downlink information for each radio link Downlink information for each radio link	A9, A10		KEL-5
		FDD	
Choice modePrimary CPICH info			
		Dof to the Default actting in TC24 100	
- Primary scrambling code		Ref. to the Default setting in TS34.108	
- PDSCH with SHO DCH info		clause 6.1 (FDD) Not Present	
		Not Present	
- PDSCH code mapping		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
- Serving HS-DSCH radio link indicator		TRUE	
- Downlink DPCH info for each RL		Deies er a ODIOU er en be avec el	
 Primary CPICH usage for channel estimation 		Primary CPICH may be used	
- DPCH frame offset		Set to value Default DPCH Offset Value	
		(as currently stored in SS) mod 38400	
- Secondary CPICH info		Not Present	
- DL channelisation code			
- Secondary scrambling code		Not present	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Code number		0	
- Scrambling code change		Not Needed	
- TPC combination index		0	
- SSDT Cell Identity		Not Present	
 Closed loop timing adjustment mode 		Not Present	
- SCCPCH information for FACH		Not Present	
Downlink information for each radio link list	A6	Not Present	

Condition	Explanation	Version
A1	This IE is needed for "Non speech to CELL_DCH from CELL_DCH in CS"	
A2	This IE is needed for "Speech to CELL_DCH from CELL_DCH in CS"	
A3	This IE is needed for "Packet to CELL_DCH from CELL_DCH in PS"	
A4	This IE is needed for "Packet to CELL_DCH from CELL_FACH in PS"	
A5	This IE is needed for "Packet to CELL_FACH from CELL_DCH in PS"	
A6	This IE is needed for "Packet to CELL_FACH from CELL_FACH in PS"	
A7	This IE is needed for "Non speech to CELL_DCH from CELL_FACH in CS"	
A8	This IE is needed for "Speech to CELL_DCH from CELL_FACH in CS"	
A9	This IE is needed for "Packet to CELL_DCH / HS-DSCH from CELL_DCH in	REL-5
	PS"	
A10	This IE is needed for 'Packet to CELL_DCH / HS-DSCH from CELL_FACH in	REL-5
	PS'	
A11	This IE is needed for " Packet RAB Setup after Speech RAB Setup in	
	CELL_DCH'	

Contents of RADIO BEARER SETUP COMPLETE message: $\ensuremath{\mathsf{AM}}$

Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
CHOICE mode	FDD
START	Not checked (if ciphering is OFF), check the presence if ciphering is ON.
COUNT-C activation time	The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER SETUP message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER SETUP message established the first RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent.
Radio bearer uplink ciphering activation time info	Not checked
Uplink counter synchronisation info	Not present

Contents of RADIO BEARER SETUP FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER SETUP message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement
Radio bearers for which reconfiguration would have succeeded	Not checked

Contents of RADIO BEARER RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark	Version
Message Type	A1,A2,A3,		
	A4,A5,A6		
RRC transaction identifier		Arbitrarily selects an integer between 0	
Integrity check info		and 3	
Integrity check info - message authentication code		SS calculates the value of MAC-I for	
- message aumentication code		this message and writes to this IE. The	
		first/ leftmost bit of the bit string	
		contains the most significant bit of the	
		MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from	
9		its internal counter.	
Integrity protection mode info		Not Present	
Ciphering mode info		Not Present	
Activation time	A1,A2,A3	(256+CFN-(CFN MOD 8 + 8))MOD 256	
Activation time	A4, A5,A6	Not Present	
New U-RNTI		Not Present	
New C-RNTI	A1, A2, A3,	Not Present	
	A4,		
New C-RNTI	A5, A6	'1010 1010 1010 1010'	
New DSCH-RNTI	A1, A2, A3,	Not Present	_
	A4, A5, A6		
New H-RNTI	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6		
RRC State indicator	A1, A2, A3,	CELL_DCH	
770	A4	0511 51011	
RRC State indicator	A5, A6	CELL_FACH	
UTRAN DRX cycle length coefficient	A1,A2,A3,	Not Present	
CNI information info	A4,A5,A6	Not Dropont	
CN information info URA identity		Not Present Not Present	
CHOICE specification mode		[FFS]	REL-5
RAB information to reconfigure list		Not Present	IXLL-3
RB information to reconfigure list	A1	TS25.331 specifies that "Although this	
TAB information to reconligure list		IE is not always required, need is MP to	
		align with ASN.1".	
- RB information to reconfigure		(UM DCCH for RRC)	
- RB identity		1	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
 RB mapping info 		Not Present	
 RB stop/continue 		Not Present	
 RB information to reconfigure 		(AM DCCH for RRC)	
- RB identity		2	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
RB stop/continueRB information to reconfigure		Not Present (AM DCCH for NAS_DT High priority)	
•		3	
RB identityPDCP info		Not Present	
- PDCP IIIIO - 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	
		Not Present	1
 RB stop/continue 			
- RB information to reconfigure		(TM DTCH)	

Information Element	Condition	Value/remark	Version
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
	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 Procent	
- PDCP info - PDCP SN info		Not Present	
- PDCP SN IIIIO - RLC info		Not Present Not Present	
- REC INIO - RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)	
- RB identity		3	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for NAS_DT Low priority)	
- RB identity		4	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(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 - RB information to reconfigure		Not Present (TM DTCH)	
- RB identity		11	
- 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)	
]		(This IE is needed for 12.2 kbps and	
		10.2 kbps)	
- RB identity		12	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
_	A3,A4,A5,	TS25.331 specifies that "Although this	
	A6	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	
DIO:t-		Not Present	
- RLC info - RB mapping info		Not Present	

Information Element	Condition	Value/remark	Version
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for RRC)	
- RB identity		2	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info - RB stop/continue		Not Present Not Present	
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)	
- RB identity		3	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for NAS_DT Low priority)	
- RB identity - PDCP info		4 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 DTCH)	
- RB identity		20	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info - RB stop/continue		Not Present Not Present	
RB information to be affected	A1, A2,	Not Present	
	A3,A4,A5,		
	A6		
UL Transport channel information for all	A1, A2,	Not Present	
transport channels	A5,A6		
UL Transport channel information for all	A3, A4		
transport channels	, , , , , ,		
- 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		Number of bits used must be enough to	
		cover all combinations of CTFC from	
		TS34.108 clause 6.10.2.4 Parameter	
0750 1 4 11		Set.	
- CTFC information		This IE is repeated for TFC numbers	
		and reference to TS34.108 clause 6.10.2.4 Parameter Set	
- CTFC		Reference to TS34.108 clause 6.10.2.4	
- 511 5		Parameter Set	
- Power offset information			
- CHOICE Gain Factors		Computed Gain Factors(The last TFC	
		is set to Signalled Gain Factors)	
- Gain factor βc		11 (below 64 kbps)	
		9 (higher than 64 kbps)	
		(Not Present if the CHOICE Gain	
		Factors is set to ComputedGain	
- Gain factor Rd		Factors)	
- Gain factor βd		(Not Present if the CHOICE Gain	
		Factors is set to ComputedGain	
<u> </u>	L		

Information Element	Condition	Value/remark	Version
		Factors)	
- Reference TFC ID		0	
- CHOICE mode		FDD	
- Power offset P p-m	44 40 40	Not Present	
Deleted UL TrCH information	A1, A2, A3, A4, A5,A6	Not Present	
Added or Reconfigured UL TrCH information	A1, A2,	Not Present	
3	A5,A6		
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 - TFS		5	
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		Boalouted transport sharmele	
- 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	
CHOICE Logical Channel list		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	
CDC size		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	
Number of TDe and TTI List		Parameter Set	
Number of TBs and TTI List Transmission Time Interval		(This IE is repeated for TFI number.) Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE Logical Channel list		All	
 Semi-static Transport Format information 			
- Transmission time interval		Reference to TS34.108 clause 6.10	
Towns of all 1 P		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
- Coding Rate		Parameter Set Reference to TS34.108 clause 6.10	
- Coding Rate		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
rate matering attribute		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
		Parameter Set	
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- TFS		Dedicated transport channels	
 CHOICE Transport channel type Dynamic Transport format information 		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.10	
1120 0120		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
 Number of Transport blocks 		Reference to TS34.108 clause 6.10	

Information Element	Condition	Value/remark	Version
		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information - Transmission time interval		Peteronee to TS24 109 elevee 6 10	
- Hansmission time interval		Reference to TS34.108 clause 6.10 Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
J1 0		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
Data mataking attaihuda		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
0110 0120		Parameter Set	
CHOICE mode	A1,A2,A3,	FDD	
0.001	A4,A5,A6		
- CPCH set ID		Not Present	
- Added or Reconfigured TrCH information for DRAC list		Not Present	
DL Transport channel information common for	A1, A2, A5,	Not Present	
all transport channel	A6		
DL Transport channel information common for	A3,A4		
all transport channel			
- SCCPCH TFCS		Not Present	
- CHOICE DI parameters		FDD Explicit	
- CHOICE DL parameters - DL DCH TFCS		Explicit	
- 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	
00		6.10.2.4	
- CTFC		Reference to TS34.108 clause 6.10.2.4	
- Power offset information		Parameter Set Not Present	
Deleted DL TrCH information	A1, A2, A3,	Not Present	
	A4, A5,A6		
Added or Reconfigured DL TrCH information	A1, A2, A5,	Not Present	
All I B G ISLTON	A6	O T OU (DOUG DOOL DOOL)	
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for	
- Downlink transport channel type		DTCH)	
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target		N. B.	
- BLER Quality value		Not Present	
Downlink transport channel type DL Transport channel identity		DCH 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	
Number of TDe and TTU ist		Parameter Set	
Number of TBs and TTI List Dynamic transport format information		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
·		Parameter Set	
- Semi-static Transport Format information			

Information Element	Condition	Value/remark	Version
- Transmission time interval		Reference to TS34.108 clause 6.10	
_ ,,		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
- Coding Rate		Parameter Set Reference to TS34.108 clause 6.10	
- Rate matching attribute		Parameter Set Reference to TS34.108 clause 6.10	
- CRC size		Parameter Set Reference to TS34.108 clause 6.10	
- DCH quality target		Parameter Set	
- BLER Quality value	A3	-2.0	
Added or Reconfigured DL TrCH information - Downlink transport channel type	AS	DCH	
DL Transport channel identity		6	
- CHOICE DL parameters		Explicit	
- TFS		Explicit	
- CHOICE Transport channel type		Dedicated transport channel	
- Dynamic transport format information			
- RLC Size		Reference to TS34.108 clause 6.10	
		Parameter Set	
 Number of TBs and TTI List 		(This IE is repeated for TFI number.)	
 Dynamic transport format information 			
- Transmission Time Interval		Not Present	
 Number of Transport blocks 		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
		Parameter Set	
 Type of channel coding 		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
Pata matching attribute		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
- 0100 3126		Parameter Set	
- DCH quality target		T didinotor Got	
- BLER Quality value		-2.0	
Preconfiguration	A1,A2,A3,	[FFS]	REL-5
	A4,A5,A6	[]	
Frequency info	A1,A2,A3,		
	A4,A5		
- UARFCN uplink (Nu)		Reference to clause 5.1 Test	
HADEON I ALD		frequencies	
- UARFCN downlink (Nd)		Reference to clause 5.1 Test	
Eraguanav inta	٨٥	frequencies Not Propert	
Frequency info Maximum allowed UL TX power	A6 A1,A2,A3,	Not Present 33dBm	
waximum allowed OL TA power	A1,A2,A3, A4,A5,A6	SOUDIII	
CHOICE channel requirement	A4,A5,A6 A1, A2, A3,	Uplink DPCH info	
OF TOTOL CHAINET TEQUITETTETT	A1, A2, A3, A4	Opinik Di Ori ililo	
-Uplink DPCH power control info			
- DPCCH power offset		-80dB (i.e. ASN.1 IE value of -40)	
- PC Preamble		1 frame	
- SRB delay		7 frames	
- Power Control Algorithm		Algorithm1	
- TPC step size		1dB	55
- Δ_{ACK}		Not Present	REL-5
- Δ_{NACK}		Not Present	REL-5
- Ack-Nack repetition factor		Not Present	REL-5
- Scrambling code type		Long	
- Scrambling code number		0 (0 to 16777215)	
- Number of DPDCH		Not Present(1)	
- spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	

Information Element	Condition	Value/remark	Version
- TFCI existence		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Number of FBI bit		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Puncturing Limit		Reference to TS34.108 clause 6.10	
OHOLOE I I I I	45.40	Parameter Set	
CHOICE channel requirement	A5, A6	Not Present	
CHOICE Mode	A1,A2,A3, A4,A5,A6	FDD	
- Downlink PDSCH information	714,710,710	Not Present	
Downlink HS-PDSCH Information	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6		
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 Downlink DPCH power control 		Not Present	
information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0	
 DL rate matching restriction information 		Not Present	
 Spreading factor 		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
- TFCI existence		Parameter Set Reference to TS34.108 clause 6.10	
- II OI existence		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	DELE
MAC-hs reset indicator Downlink information common for all radio links	A4	Not Present	REL-5
- Downlink DPCH info common for all RL	A4		
- Timing indicator		Initialise	
- CFN-targetSFN frame offset		Not Present	
 Downlink DPCH power control 			
information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
 Power offset P_{Pilot-DPDCH} DL rate matching restriction information 		0 Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
Oproduing radion		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
0110105.05		Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
- DPCH compressed mode info		Parameter Set Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value		Present Arbitrary set to value 0306688	
		by step of 512	
- MAC-hs reset indicator		Not Present	REL-5
Downlink information per radio link list	A1, A2, A3		
-Downlink information for each radio link		500	
- Choice mode		FDD	
- Primary CPICH info		Pof to the Default setting in TS24 400	
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
* EDOMESMIN SECTIVE 1010	1	INOLFICOCIIL	I .

Information Element	Condition	Value/remark	Version
- PDSCH code mapping		Not Present	
- Serving HS-DSCH radio link indicator		FALSE	REL-5
- Downlink DPCH info for each RL		17,202	11220
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation		Timaly of forting so dood	
- DPCH frame offset		Set to value Default DPCH Offset Value	
Di Girinanie onset		(as currently stored in SS) mod 38400	
- Secondary CPICH info		Not Present	
- Secondary scrambling code		140t i lesent	
- channelisation code			
- DL channelisation code			
- Secondary scrambling code		2	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Code number		0	
		1 -	
- Scrambling code change		No change 0	
- TPC combination index - SSDT Cell Identity		Not Present	
- Closed loop timing adjustment mode		Not Present	
- SCCPCH information for FACH	A 4	Not Present	
Downlink information per radio link list	A4		
-Downlink information for each radio link		EDD	
- Choice mode		FDD	
- Primary CPICH info		Def to the Defection in TOO 4 400	
- Primary scrambling code		Ref. to the Default setting in TS34.108	
DD00H 34 0H0 D0H; (clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	DEL 6
- Serving HS-DSCH radio link indicator		FALSE	REL-5
- Downlink DPCH info for each RL		D: ODIOLI I	
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation		0 11 1 0 1 100011011	
- DPCH frame offset		Set to value : Default DPCH Offset	
0 1 001011111		Value mod 38400	
- Secondary CPICH info		Not Present	
- Secondary scrambling code			
- channelisation code			
- DL channelisation code			
- Secondary scrambling code		2	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Code number		0	
- Scrambling code change		No change	
- TPC combination index		0 Not Brosent	
- SSDT Cell Identity		Not Present	
- Closed loop timing adjustment mode		Not Present	
- SCCPCH information for FACH	۸.	Not Present	
- Downlink information for each radio link	A5	EDD	
- Choice mode		FDD	
- Primary CPICH info		Det to the Detection in Took 100	
- Primary scrambling code		Ref. to the Default setting in TS34.108	
DDCCH with CHO DOLLing		clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	DEL 6
- Serving HS-DSCH radio link indicator		FALSE	REL-5
- Downlink DPCH info for each RL		Not present	
- SCCPCH Information for FACH	100	Not Present	Doo
- Downlink information for each radio link	A6	- FDD	R99
- Choice mode		FDD	
- Primary CPICH info		Det to the Det it is a Tool too	
- Primary scrambling code		Ref. to the Default setting in TS34.108	
PROOFF 34 ONO POLICY		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	1	Not Present	
- Downlink information for each radio link	A6	Not Present	REL-4 on

	Condition	Explanation
A1		This IE need for "Non speech in CS"
A2		This IE need for "Speech in CS"
А3		This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4		This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5		This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6		This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement
Radio bearers for which reconfiguration would have succeeded List	Not checked

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION COMPLETE message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked
CHOICE mode	FDD
COUNT-C activation time	Not checked
Radio bearer uplink ciphering activation time info	Not checked
Uplink counter synchronisation info	Not present

Contents of RADIO BEARER RELEASE message: AM or UM

Information Element		Value/remark	Version
Message Type	A1, A2, A3,		
	A4, A5, A6, A7, A8		
	, A9		REL-5
DDO topografica identifica	, , , , ,	Askitassika salasta sasiata asa katawa a	
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	
Integrity check info		and 5	
- message authentication code		SS calculates the value of MAC-I for	
3		this message and writes to this IE. The	
		first/ leftmost bit of the bit string	
		contains the most significant bit of the	
- RRC message sequence number		MAC-I. SS provides the value of this IE, from	
- NNO message sequence number		its internal counter.	
Integrity protection mode info		Not Present	
Ciphering mode info		Not Present	
Activation time	A1, A2, A3,	(256+CFN-(CFN MOD 8 + 8))MOD 256	
	A7, A8 , A9		REL-5
Activation time	A4, A5, A6	Not Present	INCL-5
New U-RNTI	, 17, 710, 710	Not Present	
New C-RNTI	A1,A2,A3,	Not Present	
	A4		
N. O. D.V.T.	, A9		REL-5
New C-RNTI	A5, A6, A7,	'1010 1010 1010 1010'	
New DSCH-RNTI	A8 A1, A2, A3,	Not Present	
New Booti-Kinti	A4, A5, A6,	Not i resent	
	A7, A8		
	, A9		REL-5
RRC State indicator	A1,A2, A3,	CELL_DCH	
	A4	_	
	, A9		REL-5
RRC State indicator	A5, A6, A7, A8	CELL_FACH	
UTRAN DRX cycle length coefficient	A1,A2,A3,	Not Present	
o months of the control of the contr	A4,A5,A6,	THOU TOOSIN	
	A7, A8		
	, A9		REL-5
CN information info		Not Present	
Signalling Connection release indication		Not Present	
URA identity		Not Present	
RAB information to reconfigure list	A4 AA A	Not Present	
RB information to release	A1,A2, A7, A8		
- RB identity	7.0	10	
RB information to release	A2, A8		
- RB identity	·	11	
RB information to release	A2, A8	40	
- RB identity RB information to release	A3, A4, A5,	12	ļ
וווטוווומנוטוו נט וכופמשל	A3, A4, A5, A6		
- RB identity		20	
RB information to release	A9		REL-5
- RB identity	A 4 A A	23	
RB information to be affected	A1,A2, A3,A4,A5,	Not Present	
	A3,A4,A5, A6, A7, A8		
	, A9		REL-5
	, -		
Downlink counter synchronisation info	A1,A2,A3,	Not Present	
	A4,A5,A6,		
	A7, A8		DEL F
	, A9		REL-5

Information Element		Value/remark	Version
UL Transport channel information for all	A1, A2, A3,	TFCS reconfigured to fit the new	
transport channels	A4, A5, A6,	transport channel configuration.	
	A7, A8	3	
	, A9		REL-5
Deleted UL TrCH Information	A1,A2, A3,		
	A4, A5, A6,		
	A7, A8		
	, A9		REL-5
- Uplink transport channel type		DCH	
- Transport channel identity		1	
Deleted UL TrCH Information	A2, A8		
- Uplink transport channel type	712,710	DCH	
- Transport channel identity		2	
Deleted UL TrCH Information	A2, A8		
- Uplink transport channel type	712,710	DCH	
- Transport channel identity		3	
Added or Reconfigured UL TrCH information	A5, A6, A7,	Not Present	
Added of Recorniguied of From Information	A8	140t Frescht	
Added or Reconfigured UL TrCH information	A1, A2, A3,	TrCHs(DCH for DCCH)	
Added of Neconinguied of Troff information	A1, A2, A3,	Tions(Borrior Boorr)	
	, A9		REL-5
Unlink transport shapped two	, 73	DCH	IXLL-3
- Uplink transport channel type			
- UL Transport channel identity		5	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information			
- RLC Size		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
 Number of TBs and TTI List 		(This IE is repeated for TFI number.)	
 Transmission Time Interval 		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
 Number of Transport blocks 		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
- CHOICE Logical Channel list		All	
 Semi-static Transport Format information 			
 Transmission time interval 		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
 Type of channel coding 		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
- Coding Rate		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
 Rate matching attribute 		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
- CRC size		According to TS34.108 clause	
		6.10.2.4.1.3 (standalone 13.6 kbps	
		signalling radio bearer)	
DL Transport channel information for all	A1, A2, A3,	TFCS reconfigured to fit the new	
transport channels	A4, A5, A6,	transport channel configuration.	
	A7, A8		
	, A9		REL-5
Deleted DL TrCH Information	A1, A2, A3,		
Deleted DE LIGIT IIIIOIIII4001	A1, A2, A3, A4, A5,		
	A4, A5, A6, A7, A8		
	, A9		REL-5
	, 73		INLL-5
Douglink transport shape -1 to		DCH	
- Downlink transport channel type		DCH	
- Transport channel identity	1	6	

Information Element		Value/remark	Version
Deleted DL TrCH Information	A2, A8		
 Downlink transport channel type 		DCH	
- Transport channel identity		7	
Deleted DL TrCH Information	A2, A8		
 Downlink transport channel type 		DCH	
 Transport channel identity 		8	
Deleted DL TrCH Information	A9		REL-5
 Downlink transport channel type 		HS-DSCH	
- DL HS-DSCH MAC-d flow identity		0	
Added or Reconfigured DL TrCH information	A5, A6, A7, A8	Not Present	
Added or Reconfigured DL TrCH information	A1, A2, A3,	1 TrCHs(DCH for DCCH)	
	A4		
	, A9		REL-5
- Downlink transport channel type		DCH	
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target			
- BLER Quality value		Not Present	
Frequency info	A1,A2,A3,	INOLI IGOGIIL	
Friequency inio	A1,A2,A3, A4,A5, A7, A8		
	, A9		REL-5
- 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	
Frequency info	A6	Not Present	
CHOICE channel requirement	A5, A6, A7,	Not Present	
CHOICE Channel requirement	A8		
CHOICE channel requirement	A1,A2,A3, A4	Uplink DPCH info	
- Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - Δ _{ACK} - Δ _{NACK} - Ack-Nack repetition factor - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	, A9	-80dB (i.e. ASN.1 IE value of -40) 1 frame 7 frames Algorithm1 Not Present Not Present Not Present 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set	REL-5 REL-5 REL-5 REL-5
CHOICE Mode	A1,A2,A3,	Parameter Set FDD	
	A4,A5,A6, A7, A8 , A9		REL-5
- Downlink PDSCH information		Not Present	
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6, A7, A8, A9	Not Present	REL-5

Information Element		Value/remark	Version
	A7, A8		
Downlink information common for all radio links	A1,A2, A3		
D	, A9		REL-5
- Downlink DPCH info common for all RL			
- Timing indicator		Maintain	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0	
- DL rate matching restriction information		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
		Parameter Set	
- DPCH compressed mode info		Not Present	
- TX Diversity mode		None Net Broomt	
- SSDT information		Not Present	
- Default DPCH Offset Value	 	Not Present	REL-5
- MAC-hs reset indicator Downlink information common for all radio links	A4	Not Present	KEL-0
- Downlink DPCH info common for all RL	A4		
- Timing indicator		Initialise	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control		NOT TOSCIT	
information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0	
 DL rate matching restriction information 		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
TEOL assistance		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
- CHOICE SF		Parameter Set Reference to TS34.108 clause 6.10	
- CHOICE SF		Parameter Set	
- DPCH compressed mode info		Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step	
		of 512	
- MAC-hs reset indicator		Not Present	REL-5
Downlink information for each radio link list	A1,A2,A3		
	, A9		REL-5
-Downlink information for each radio link			
- Choice mode		FDD	
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108	
DD00H with OHO DOH! (clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping - Serving HS-DSCH radio link indicator		Not Present FALSE	REL-5
- Downlink DPCH info for each RL		TALSE	IVEL-3
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation		i imaly of fortillay be asea	
- 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			

Information Element		Value/remark	Version
- DL channelisation code			
- Secondary scrambling code		3	
- Spreading factor		Reference to TS34.108 clause 6.10	
op and greater		Parameter Set	
- Code number		0	
- Scrambling code change		No change	
- TPC combination index		0	
- SSDT Cell Identity		Not Present	
- Closed loop timing adjustment mode		Not Present	
- SCCPCH information for FACH		Not Present	
Downlink information for each radio link list	A4		
-Downlink information for each radio link	* '		
- Choice mode		FDD	
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108	
I finding columning code		clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	
- Serving HS-DSCH radio link indicator		FALSE	REL-5
- Downlink DPCH info for each RL		TAEGE	11220
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation		I filliary of for filliary be deed	
- DPCH frame offset		Set to value : Default DPCH Offset	
BI GITTIAMO GNOCC		Value mod 38400	
- Secondary CPICH info		Not Present	
- Secondary scrambling code			
- channelisation code			
- DL channelisation code			
- Secondary scrambling code		3	
- Spreading factor		Reference to TS34.108 clause 6.10	
op and greater		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, A7, A8		
- Choice mode	, , ,	FDD	
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108	
,		clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	
- Serving HS-DSCH radio link indicator		FALSE	REL-5
- Downlink DPCH info for each RL		Not present	
- SCCPCH information for FACH		Not Present	
- Downlink information for each radio link	A6	Not Present	

Condition	Explanation	Version
A1	This IE need for "Non speech in CS"	
A2	This IE need for "Speech in CS"	
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"	
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"	
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"	
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"	
A7	This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"	
A8	This IE need for "Speech to CELL_FACH from CELL_DCH in CS"	
A9	This IE is needed for "Packet to CELL_DCH from CELL_DCH / HS-DSCH in	REL-5
	PS"	

Contents of RADIO BEARER RELEASE COMPLETE message: AM

Message Type	
RRC transaction identifier	Checked to see the value is identical to the same IE in the
	downlink RADIO BEARER RELEASE message.
Integrity check info	
 Message authentication code 	This IE is checked to see if it is present. The value is
	compared against the XMAC-I value computed by SS. The
	first/ leftmost bit of the bit string contains the most
	significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used
	by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
CHOICE mode	FDD
COUNT-C activation time	Not checked
Radio bearer uplink ciphering activation time info	Not checked
Uplink counter synchronisation info	Not present

Contents of RADIO BEARER RELEASE FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement
Radio bearers for which reconfiguration would have succeeded	Not checked

Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark	Version
Message Type		
Predefined configuration status information	To be checked against requirement if specified	REL-5
Initial UE identity		
- CHOICE UE id type		
- TMSI and LAI (GSM-MAP)	Set to the UE's TMSI and LAI.	
Establishment cause	To be checked against requirement if specified	
Protocol error indicator	FALSE	
UE Specific Behaviour Information 1 idle	This IE will not be checked by default behaviour,	
	but in specific test case.	
Measured results on RACH	To be checked against requirement if specified	
		REL-4
Access stratum release indicator	To be checked against requirement if specified	REL-4

Contents of RRC CONNECTION REJECT message: UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Initial UE identity	Select the same type as in the IE "Initial UE Identity" in RRC CONNECTION REQUEST" message.
Rejection cause	Unspecified
Wait Time	0
Redirection info	Not Present

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark	Version
Message Type		
U-RNTĪ	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.	R99, REL-4
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 B	
CHOICE identity type	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.	REL-5
- U-RNTI		
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
- Group identity	[FFS]	
- Group release information	[FFS]	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Integrity check info	This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.	
N308	2 (for CELL_DCH state). Not Present (for UE in other	
	connected mode states).	
Release cause	Normal event	
Rplmn information	Not Present	

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

Information Element	Semantics description
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.
Integrity check info	
- Message authentication code	Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	Checked to see if it is present. This number is used by the SS to compute the XMAC-I
Error indication	Not checked

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH)

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in	
•	received RRC CONNECTION REQUEST" message	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Activation time	Not Present(Now)	
New U-RNTI		
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
New C-RNTI	Not present	
RRC State Indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	9	
Capability update requirement		
- UÉ radio access FDD capability update	TRUE	
requirement		
- UE radio access TDD capability update	FALSE	
requirement		
- System specific capability update requirement list		
CHOICE specification mode	Complete specification	REL-5
- Complete specification		REL-5
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard	Not Present	
- CHOICE Downlink RLC mode	UM RLC	
- RB mapping info		
 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	<u> </u> 1	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	рсн	
 DL DCH Transport channel identity 	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	1	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	1	
- CHOICE RLC size list	Explicit List	
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone	
	13.6 kbps signalling radio bearer)	
- MAC logical channel priority	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 - DL DSCH Transport channel identity	Not Present	
Logical channel identity	1	
- Signalling RB information to setup	(AM DCCH for RRC)	
- Signalling RB information to setup - RB identity	Not Present	
- RB Identity - CHOICE RLC info type		
- CHOICE RLC Info type - RLC info		
- RLC Info - CHOICE Uplink RLC mode	AM RLC	
- CHOICE Uplink RLC mode - Transmission RLC discard	,	
	No discard	
- SDU discard mode	No discard	
- MAX_DAT	15	
- Transmission window size	32	1

Information Element	Value/remark	Version
- Timer_RST	500	40131011
- Illier_RST - Max_RST	1	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poli_profilbit	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Window	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	32	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
 Information for each multiplexing option 	2 RBMuxOptions	
 RLC logical channel mapping indicator 	Not Present	
- Number of 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 Downlink transport channel type	DCH	
- DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	2	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	2	
- CHOICE RLC size list	Explicit List	
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone	
	13.6 kbps signalling radio bearer)	
 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 Logical channel identity	Not Present 2	
- Logical charmer identity - Signalling RB information to setup	(AM DCCH for NAS_DT High priority)	
- RB identity	Not Present	
- CHOICE RLC info type	Not i resent	
- RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No discard	
- MAX_DAT	15	
- Transmission window size	32	
- Timer_RST	500	
- Max_RST	1	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not present	
- Poll_SDU	1 TDUE	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	l l

Information Element	Value/remark	Version
- Poll_Window	99	30.0.0.
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	32	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	3	
- CHOICE RLC size list	Configured	
 MAC logical channel priority 	3	
- Downlink RLC logical channel info		
 Number of RLC logical channels 	1	
 Downlink transport channel type 	DCH	
 DL DCH Transport channel identity 	10	
 DL DSCH Transport channel identity 	Not Present	
 Logical channel identity 	3	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	RACH	
 UL Transport channel identity 	Not Present	
- Logical channel identity	3	
- CHOICE RLC size list	Explicit List	
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone	
MAC logical shapped priority	13.6 kbps signalling radio bearer)	
 MAC logical channel priority Downlink RLC logical channel info 	3	
Number of RLC logical channels	1	
Downlink transport channel type	FACH	
- DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	3	
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No discard	
- MAX_DAT	15	
 Transmission window size 	32	
- Timer_RST	500	
- Max_RST	1	
- Polling info		
 Timer_poll_prohibit 	200	
- Timer_poll	200	
- Poll_PDU	Not present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Window	99 Not Brosent	
- Timer_poll_periodic	Not Present	
 CHOICE Downlink RLC mode In-sequence delivery 	AM RLC TRUE	
- In-sequence delivery - Receiving window size	32	
- Receiving window size - Downlink RLC status info	J2	
Timer_status_prohibit	200	
- Timer_status_profilibit - Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
	1	I .

Information Element	Value/remark	Version
- Timer_STATUS_periodic	Not Present	70101011
- RB mapping info	THE THE SECTION OF TH	
- Information for each multiplexing option	2 RBMuxOptions	
 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 MAC logical channel priority	Configured	
- Downlink RLC logical channel info	T	
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
 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 UL Transport channel identity 	RACH Not Present	
- OE Transport channel identity - Logical channel identity	4	
- CHOICE RLC size list	Explicit List	
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone	
	13.6 kbps signalling radio bearer)	
- MAC logical channel priority	4	
 Downlink RLC logical channel info 		
 Number of RLC logical channels 	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
 DL DSCH Transport channel identity Logical channel identity 	Not Present 4	
UL Transport channel information for all transport	4	
channels		
- PRACH TFCS	Not Present	
- CHOICE Mode	FDD	
- TFC subset	Nor Present	
- UL DCH TFCS		
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information	On well at a	
- CHOICE TFCS representation	Complete	
 TFCS complete reconfigure CHOICE CTFC Size 	2bit CTFC	
- CTFC information	This IE is repeated for TFC numbers according to TS 34.108	
	clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio	
	bearer)	
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
	kbps signalling radio bearer)	
- Power offset information		
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled	
- Gain factor ßc	Gain Factors) 11 (below 64 kbps)	
- Gain lacion isc	9 (higher than 64 kbps)	
	(Not Present if the above is set to Computed Gain Factors)	
- Gain factor ßd	15	
	(Not Present if the above is set to Computed Gain Factors)	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset Pp-m	Not Present	
Added or Reconfigured UL TrCH information	DOH	
- Uplink transport channel type	DCH	
 UL Transport channel identity TFS 	5	
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport format information	2 Should transport originate	
- RLC size	According to TS 34.108 clause 6.10.2.4.1.3 (standalone	
	13.6 kbps signalling radio bearer)	
- Number of TBs and TTI lists	(This IE is repeated for TFI number)	

Information Element	Value/remark	Version
- Transmission Time Interval	According to TS 34.108 clause 6.10.2.4.1.3 (standalone	
	13.6 kbps signalling radio bearer)	
- Number of Transport blocks	According to TS 34.108 clause 6.10.2.4.1.3 (standalone	
	13.6 kbps signalling radio bearer)	
- CHOICE Logical channel list	All	
- Semi-static Transport Format information		
- Transmission time interval	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
Transmission time interval	kbps signalling radio bearer)	
- Type of channel coding	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
Type of orientifer county	kbps signalling radio bearer)	
- Coding Rate	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
Journal Halls	kbps signalling radio bearer)	
- Rate matching attribute	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
Trate matering attribute	kbps signalling radio bearer)	
- CRC size	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
- 0100 3126	kbps signalling radio bearer)	
DL Transport channel information common for all	Ropo digitaling radio beater)	
transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	FDD	
- CHOICE Mode - CHOICE DL parameters	Same as UL	
Added or Reconfigured DL TrCH information	Calle as OL	
- Downlink transport channel type	DCH	
- DL Transport channel identity	10	
	Same as UL	
- CHOICE DL parameters	DCH	
- Uplink transport channel type		
- UL TrCH Identity	5	
- DCH quality target	2.0	
- BLER Quality value	-2.0 Not Present	
Frequency info	Not Present	
Maximum allowed UL TX power	Not Present	
Uplink DPCH info		
- Uplink DPCH power control info	20dP (i.e. ASN 1 IE value of 10)	
- DPCCH power offset - PC Preamble	-80dB (i.e. ASN.1 IE value of -40)	
- SRB delay	7 frames	
- Power Control Algorithm		
- Power Control Algorithm - TPC step size	Algorithm1 1dB	
- Scrambling code type		
- Scrambling code type - Scrambling code number	Long 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	
- Spreading factor	kbps signalling radio bearer)	
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
- TPGI existence	kbps signalling radio bearer)	
- Number of FBI bit	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
- Number of FBI bit	kbps signalling radio bearer)	
Dungturing Limit	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	kops signalling radio bearer)	
- Downlink DPCH info common for all RL		
- Timing Indication	Initialise	
- CFN-targetSFN frame offset	Not Present	
- CHOICE mode	FDD	
- Downlink DPCH power control information	I BB	
- DPC mode	(cingle)	
- Power offset P Pilot-DPDCH	0 (single) 0	
- DL rate matching restriction information	Not Present	
- DE rate matching restriction information - Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
Opreading factor	kbps signalling radio bearer)	
- Fixed or Flexible Position	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
- Fixed of Flexible Position		
TECL existence	kbps signalling radio bearer)	
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)	
- CHOICE SF	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
* OHOIGE OF		
DDCH compressed made info	kbps signalling radio bearer)	
- DPCH compressed mode info	Not Present	

Information Element	Value/remark	Version
- TX Diversity mode	None	
- SSDT information	Not Present	
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512	
Downlink information for each radio links list		
- Downlink information for each radio links		
- CHOICE mode	FDD	
- Primary CPICH info		
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"	
- PDSCH with SHO DCH info	Not Present	
- PDSCH code mapping	Not Present	
- Downlink DPCH info for each RL		
- Primary CPICH usage for channel estimation	Primary CPICH may be used	
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400	
- Secondary CPICH info	Not Present	
- DL channelisation code		
- Secondary scrambling code	1	
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6	
	kbps signalling radio bearer)	
- Code number	0	
- Scrambling code change	Not Present	
- TPC combination index	0	
- SSDT Cell Identity	Not Present	
- Closed loop timing adjustment mode	Not Present	
- SCCPCH information for FACH	Not Present	

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in	
	received RRC CONNECTION REQUEST" message	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Activation time	Not Present (Now)	
New U-RNTI		
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
New C-RNTI	0000 0000 0000 0001B	
RRC state indicator	CELL_FACH	
UTRAN DRX cycle length coefficient	9	
Capability update requirement		
- UE radio access FDD capability update	TRUE	
requirement		
- UE radio access TDD capability update	FALSE	
requirement		
- System specific capability update requirement list	GSM	55. 5
CHOICE specification mode	Complete specification	REL-5
- Complete specification	(LIM DOOLL 6- a DDO)	REL-5
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	Not present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard - SDU discard mode	Not present Not present	
- CHOICE Downlink RLC mode	UM RLC	
	OW RLC	
 RB mapping info Information for each multiplexing option 	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of uplink RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	1	
- Downlink RLC logical channel info	'	
- Number of downlink RLC logical channels	1	
- Downlink transport channel type	DCH	
2 0 min transport onamor typo	1	<u> </u>

Information Element	Value/remark	Version
- DL DCH Transport channel identity	10	20.0.011
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	1	
- RLC logical channel mapping indicator	Not Present	
- Number of uplink RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	1	
- CHOICE RLC size list	Explicit list	
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1	
- MAC logical channel priority	1	
- Downlink RLC logical channel info	1	
- Number of downlink RLC logical channels	1	
- Downlink transport channel type	FACH	
· · · · · · · · · · · · · · · · · · ·	Not Present	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity		
- Logical channel identity	1 (AM DCCH for BBC)	
- Signalling RB information to setup	(AM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard	N. 5.	
- SDU discard mode	No Discard	
- MAX_DAT	15	
- Transmission window size	32	
- Timer_RST	500	
- Max_RST	1	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	32	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of uplink RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	2	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
- 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	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	
Logical charmol lactility	-	

Information Element	Value/remark	Version
- CHOICE RLC size list	Explicit list	
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1	
 MAC logical channel priority 	2	
 Downlink RLC logical channel info 		
 Number of downlink RLC logical channels 	1	
 Downlink transport channel type 	FACH	
 DL DCH Transport channel identity 	Not Present	
 DL DSCH Transport channel identity 	Not Present	
 Logical channel identity 	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	N. B.	
- SDU discard mode	No Discard	
- MAX_DAT	15	
- Transmission window size	32	
- Timer_RST	500	
- Max_RST	1	
- Polling info	200	
- Timer_poll_prohibit	200 200	
- Timer_poll - Poll_PDU	Not Present	
- Poll SDU	1	
- Last transmission PDU poll	TRUE	
- Last transmission PDU poll	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	32	
- Downlink RLC status info	02	
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of uplink RLC logical channels	1	
- Uplink transport channel type	DCH	
 UL Transport channel identity 	5	
 Logical channel identity 	3	
- CHOICE RLC size list	Configured	
 MAC logical channel priority 	3	
 Downlink RLC logical channel info 		
 Number of downlink RLC logical channels 	1	
 Downlink transport channel type 	DCH	
 DL DCH Transport channel identity 	10	
 DL DSCH Transport channel identity 	Not Present	
 Logical channel identity 	3	
 RLC logical channel mapping indicator 	Not Present	
 Number of uplink RLC logical channels 	1	
- Uplink transport channel type	RACH	
- UL DCH Transport channel identity	Not Present	
- Logical channel identity	3	
- CHOICE RLC size list	Explicit list	
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1	
- MAC logical channel priority	3	
- Downlink RLC logical channel info	4	
- Number of downlink RLC logical channels	1 5404	
- Downlink transport channel type	FACH Not Propert	
- DL DCH Transport channel identity	Not Present Not Present	
 DL DSCH Transport channel identity Logical channel identity 	3	
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)	
- RB identity	Not Present	
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- CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Poll_PDU - Poll_PDU - Poll_PDU - Poll_PDU - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_status_pr	Version
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- Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll poll	
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- Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - UL Transport channel identity - Logical channel identity - Logical channel identity - Logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - In Configured 4 - Configured 4 - Configured 4 - Downlink RLC logical channels 1 - Downlink RLC logical channel info - Number of downlink RLC logical channels	
- CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - UL Transport channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Mumber of downlink RLC logical channels - Number of downlink RLC logical channels	
- MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 CHOICE RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels	
- Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 Not Present 1 RACH Not Present 4 Explicit list - Explicit list - According to TS34.108 clause 6.10.2.4.4.1	
- Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit list 4 Explicit list 4 According to TS34.108 clause 6.10.2.4.4.1	
- DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels 10 Not Present 1 RACH Not Present 1 RACH Not Present 4 Explicit list - RCH According to TS34.108 clause 6.10.2.4.4.1	
- DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels Not Present 4 Not Present 4 Not Present 4 RACH Not Present 4 Explicit list 4 According to TS34.108 clause 6.10.2.4.4.1	
- Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels 4 Not Present - RACH Not Present - Explicit list - Explicit list - According to TS34.108 clause 6.10.2.4.4.1	
- RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels Not Present RACH Not Present	
- Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 RACH Not Present 4 Explicit list - According to TS34.108 clause 6.10.2.4.4.1 4	
- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - UL Transport channel type - Not Present - Explicit list - According to TS34.108 clause 6.10.2.4.4.1 - 4 - CHOICE RLC size list - According to TS34.108 clause 6.10.2.4.4.1	
- UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - UL Transport channel identity - Logical channel identity - Explicit list - According to TS34.108 clause 6.10.2.4.4.1 - 4 - 4 - 4 - 4 - 4 - 5 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	
- Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels 4 Explicit list - According to TS34.108 clause 6.10.2.4.4.1 4 - Downlink RLC logical channel info - Number of downlink RLC logical channels	
- CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels - CHOICE RLC size list - According to TS34.108 clause 6.10.2.4.4.1 4 4 1	
- RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels According to TS34.108 clause 6.10.2.4.4.1 4 1	
- Downlink RLC logical channel info - Number of downlink RLC logical channels 1	
- Number of downlink RLC logical channels 1	
- Number of downlink RLC logical channels 1	
Downlink transport channel type	
- Downlink transport channel type FACH - DL DCH Transport channel identity Not Present	
- DL DCH Transport channel identity - DL DSCH Transport channel identity Not Present Not Present	
- DE DOCH Transport charmer 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	
- TFCI Field 1 information - CHOICE TFCS representation Complete	
- TFCS complete reconfigure	
- CHOICE CTFC Size 2bit CTFC	
- CTFC information This IE is repeated for TFC numbers according to	
TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps	

Information Element	Value/remark	Version
imormation Lientent	signalling radio bearer)	V 61 31011
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone	
- 011 0	13.6 kbps signalling radio bearer)	
- Power offset information	10.0 Kbps signaling radio bearer)	
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled	
CHOICE GUILL GOOLG	Gain Factors)	
- Gain factor ßc	11 (below 64 kbps)	
Gair ractor isc	9 (higher than 64 kbps)	
	(Not Present if the above is set to Computed Gain	
	Factors)	
- Gain factor ßd	15	
Gair ractor isa	(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	
Added of Reconfigured Troff information list	when the IE "RRC state indicator" is set to	
	"CELL_FACH", need is MP to align with ASN.1"	
Added or Reconfigured III. TrCH information	CELL_FACH, Heed is MP to aligh with ASN.1	
- Added or Reconfigured UL TrCH information	DCH	
- Uplink transport channel type	5	
- UL Transport channel identity - TFS	3	
_	Dedicated transport channels	
- CHOICE Transport channel type	Dedicated transport channels	
Dynamic Transport format information RLC Size	Value 16 results in an RLC size of 144 bits;	
- KLO Size		
- Number of TBs and TTI List	OctetModeType1 ((8*sizeType1)+16). List with single entry	
- Transmission Time Interval	Not Present	
- Number of Transport blocks	0	
- CHOICE Logical Channel List	ALL	
- Semi-static Transport Format information	ALL	
- Transmission time interval	40 ms	
- Type of channel coding	Convolutional	
	1/3	
- Coding Rate - Rate matching attribute	160	
- CRC size	16	
DL Transport channel information common for all	10	
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	
Added of Recorniguled Troff Information list	when the IE "RRC state indicator" is set to	
	"CELL_FACH", need is MP to align with ASN.1"	
- Added or Reconfigured DL TrCH information	OLLL_I AOIT; fieed is will to dilight with AOIV.	
- Downlink transport channel type	DCH	
- DL Transport channel identity	10	
- CHOICE DL parameters	Same as UL	
- Uplink Transport channel type	DCH DCH	
- UL TrCH identity	5	
- DCH quality target	Not Present	
Frequency info	Not present	
Maximum allowed UL TX power	Not present	
CHOICE channel requirement	Not Present	
Downlink information common for all radio links	Not Present	
Downlink information common for all radio links Downlink information for each radio link list	Not present	
Domining information for Caon radio link list	1 1101 51000111	

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	This IE is checked to see if it is present.
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of RRC STATUS message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Identification of received message	Not Checked
Protocol error information	
- Protocol error cause	Refer to test requirement.

Contents of SECURITY MODE COMMAND message: AM

RRC transaction identifier Integrity check info - Message authentication code - RRC Message Sequence Number Security capability - Ciphering algorithm capability - UEA0 - UEA1 - UEA1 - Sare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RC sequence number - RB identity - RC sequence n	Information Element	Condition	Value/remark
Integrity check info - Message authentication code - RRC Message Sequence Number Security capability - Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection find before the find capability - UIA1 - Spare Ciphering mode info - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB i	Message Type	A1, A2	
- Message authentication code - RRC Message Sequence Number - Ciphering algorithm capability - UEA0 - UEA1 - UEA1 - UEA1 - UEA1 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - Ciphering mode info - Ciphering adjorithm - Ciphering adjorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RB id	RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
First/ leftmost bit of the bits tring contains the most significant bit of the bits tring contains the most significant bit of the MAC-I. Set to an arbitrarily selected integer between 0 and 15 Security capability - Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Raido bearer activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RCC Seq			
- RRC Message Sequence Number Security capability - Ciphering algorithm capability - UEA0 If the UE has indicated support for ciphering algorithm UEA0 in the IE 'security capability' in the RRC CONNECTION SETUP' COMPLETE message, this lie is set to TRUE. - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity	- Message authentication code		
Security capability Ciphering algorithm capability - UEA0 - UEA1 - Spare Integrity protection algorithm capability - UIA1 - Spare Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RL C sequence number - RB identity - RL Sequence number - RB identity - RL Sequence number - RB identity - RL C sequence number - RB identity - RL Sequence number -			
Security capability - Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering and spare 2-15 = FALSE 000000000000000000000000000000000000			
Security capability - Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - Ciphering mode info - Ciphering mode info - Ciphering and command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RC sequence number - RB ide	- RRC Message Sequence Number		
- Ciphering algorithm capability - UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Radio bearer downlink ciphering activation time info - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RCC	0 11 1111		0 and 15
- UEA0 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - Ciphering mode info - Ciphering mode info - Ciphering and command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence n			
algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. UEA1 - UEA1 - UEA1 - UEA1 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity			If the LIE has indicated support for sinhering
- UEA1 - UEA1 - UEA1 - UEA1 - UEA1 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering algor	- UEAU		
- UEA1 - UEA1 - UEA1 - UEA1 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity			
- UEA1 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info - Ciphering mode command - Ciphering algorithm Ciphering algorithm - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm Ciphering - Ciphering algorithm LEA1 in the IE 'security - Ciphering algorithm LEA1 in the IE 'security - Ciphering algorithm Ciphering - Ciphering algorithm - Ciphering algorithm Ciphering - Ciphering algorithm - Ciphering - Cipher			
- UEA1 - UEA1 - UEA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - Radio bearer activation - Radio bearer activation - Current RLC SN - Current RLC SN - Current RLC SN			
algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. Spare 2-15 = FALSE 00000000000010B (UIA1) TRUE. Spare 2-15 = FALSE 00000000000010B (UIA1) TRUE Spare 0 and Spare 2-15 = FALSE This presence of this IE is dependent on IXIT statements in TS 34-123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. Start/restant UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Not Present 1 Current RLC SN SETUP COMPLETE message. Not Present 1 Current RLC SN SETUP COMPLETE message. Not Present 1 Current RLC SN SETUP COMPLETE message. Not Present 1 Current RLC SN SETUP COMPLETE message. Not Present 1 Current RLC SN SETUP COMPLETE message. Not Present 1 Current RLC SN SETUP COMPLETE message. Not Present UEA0 or UEA1. The indicated algorithm must be the same as the algorithms supported by the UE as algorithms supported by	- UEA1		_
- Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - CHORD system - GSM security capability - CHORD system - RE algorithms supported by the UE as			
- Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RC seque			
- Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RC sequence num			COMPLETE message, this IE is set to
- Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info - Ciphering mode command - Ciphering algorithm - Ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is dependent on IXIT - Start/restart - UEA0 or UEA1. The indicated algorithm - Ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is dependent on IXIT - LEA0 or UEA1. The indicated algorithm - Ciphering is indicated in the Xitary capability - CHOICE system - Ciphering algorithm - Cip			
- UIA1 - Spare Ciphering mode info Ciphering mode info Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RC se			
Spare 0 and Spare 2-15 = FALSE Ciphering mode info Spare 0 and Spare 2-15 = FALSE This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE is omitted. Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Not Present 1 Current RLC SN 2 Current RLC SN 2 RLC sequence number RB identity RC sequence number RB identity R			
Ciphering mode info This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. Ciphering algorithm Ciphering algorithm Ciphering algorithm Ciphering algorithm Ciphering activation time for DPCH Radio bearer downlink ciphering activation time info Radio bearer activation time RB identity RLC sequence number RB identity Current RLC SN Current RLC SN Current RLC SN 4 Current RLC SN 4 Current RLC SN SEATUP COMPLETE message. Not Present Current RLC SN Current RLC SN Current RLC SN SEATUP COMPLETE message. Not Present 1 Current RLC SN Current RLC SN SEATUP COMPLETE message. Not Present 1 Current RLC SN SEATUP COMPLETE message. Not Present 1 Current RLC SN SEATUP COMPLETE message. Not Present UIA1 Seate an arbitrary 32 bits number for FRESH CS or PS Not Checked The indicated algorithms must be the same as the algorithms supported by the UE as	_		
statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted. Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. - Ciphering activation time for DPCH - Radio bearer activation time - Radio bearer activation time - Radio bearer activation time - RB identity - RLC sequence number - RB identity - Current RLC SN - Current			
- Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC SN - Current RLC SN - Current RLC SN - Current RLC SN - Current RLC SN - Start - Current RLC SN - Current RLC SN - Start - Current RLC SN - Current RLC SN - Start - Start - Current RLC SN - Start - Start -	Cipnering mode into		
the values of the sub IEs as stated below. Else, this IE is omitted. Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Ciphering activation time for DPCH Radio bearer activation time RB identity RLC sequence number RB identity RC sequence number RB identity A1 Current RLC SN Start Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH CS or PS Not Checked GSM The indicated algorithms must be the same as the algorithms supported by the UE as			
- Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - Radio bearer activated in the IE 'security Capability - Current RLC SN - Current RLC SN - Current RLC SN - Current RLC SN - Stat - Current RLC SN - Stat - Not Present - UIA1 - Ss selects an arbitrary 32 bits number for FRESH - CS or PS - Not Checked - CS or			
- Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity - Current RLC SN - Current RLC SN - Current RLC SN - Start - Current RLC SN - A - Curre			
- Ciphering algorithm But Based or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - Current RLC SN - Current RLC SN - Current RLC SN - Start - Current RLC SN - Start - Current RLC SN - Start - Not Present - UIA1 - SS selects an arbitrary 32 bits number for FRESH - CS or PS - Not Checked - SS or PS - Not Checked - SSM - CHOICE system - GSM security capability - CHOICE system - GSM security capability - GSM security capability - CHOICE system - GSM security capability	- Ciphering mode command		
must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity - RLC sequence number - RB identity - RC sequence number - RB identity - Current RLC SN - Current RLC SN - Current RLC SN - Variable Start -			
the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. - Ciphering activation time for DPCH - Radio bearer activation time info - Radio bearer activation time - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - CHOICE system - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as			
- Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity - CN domain identity - CHOICE system - GSM security capability - GSM security capability - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as			the UE as indicated in the IE "security
- Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - Integrity protection initialisation number - CN domain identity - UE system specific security capability - CHOICE system - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as			
- Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as			
info Radio bearer activation time RB identity RLC sequence number Integrity protection mode command Downlink integrity protection activation info Integrity protection algorithm Integrity protection initialisation number CN domain identity RCS or PS RESH CS or PS RESH CS or PS Not Checked GSM The indicated algorithms must be the same as the algorithms supported by the UE as			Not Present
- Radio bearer activation time - RB identity - RLC sequence number - RB identity - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - Integrity protection initialisation number - RLC SN - CS or PS - Not Checked - CS or PS - Not Checked - GSM security capability - CHOICE system - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as	, ,		
- RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity - CN domain identity - CHOICE system - GSM security capability - CHOICE system - GSM security capability - GSM security capability - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as			
RLC sequence number RB identity RLC sequence number Integrity protection mode info Integrity protection mode command Downlink integrity protection activation info Integrity protection algorithm Integrity protection initialisation number CN domain identity RCS or PS UE system specific security capability Inter-RAT UE security capability CHOICE system GSM GSM The indicated algorithms must be the same as the algorithms supported by the UE as			1
- RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity - Inter-RAT UE security capability - CHOICE system - GSM security capability - Inter-RAT UE security capability - GSM The indicated algorithms must be the same as the algorithms supported by the UE as			Current RLC SN
- RLC sequence number - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as			
- RB identity - RLC sequence number - RB identity - RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability - The indicated algorithms must be the same as the algorithms supported by the UE as			I=
- RLC sequence number - RB identity - RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - GSM security capability			
- RLC sequence number Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - GSM security capability			Current RLC SN
Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - GSM security capability	- RB identity		4
- Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - GSM security capability	- RLC sequence number		Current RLC SN
- Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability GSM The indicated algorithms must be the same as the algorithms supported by the UE as	Integrity protection mode info		
- Integrity protection algorithm - Integrity protection initialisation number CN domain identity UE system specific security capability UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability			
- Integrity protection initialisation number CN domain identity UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability			
CN domain identity UE system specific security capability A1 UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability The indicated algorithms must be the same as the algorithms supported by the UE as			-
CN domain identity UE system specific security capability A1 Not Checked Not Checked A2 Inter-RAT UE security capability CS or PS Not Checked A2 GSM GSM GSM The indicated algorithms must be the same as the algorithms supported by the UE as	- integrity protection initialisation number		
UE system specific security capability UE system specific security capability Inter-RAT UE security capability CHOICE system GSM GSM The indicated algorithms must be the same as the algorithms supported by the UE as	CN domain identity		
UE system specific security capability - Inter-RAT UE security capability - CHOICE system - GSM security capability GSM The indicated algorithms must be the same as the algorithms supported by the UE as		Δ1	
- Inter-RAT UE security capability - CHOICE system - GSM security capability GSM The indicated algorithms must be the same as the algorithms supported by the UE as			THE STICKED
- CHOICE system - GSM security capability GSM The indicated algorithms must be the same as the algorithms supported by the UE as		, ,_	
- GSM security capability The indicated algorithms must be the same as the algorithms supported by the UE as			GSM
as the algorithms supported by the UE as			
			indicated in the IE " UE system specific
capability " in the RRC CONNECTION			
SETUP COMPLETE message.			SETUP COMPLETE message.

Condition	Explanation
A1	UE not supporting GSM
A2	UE supporting GSM

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in SECURITY MODE
	COMMAND message, this IE must be absent. Else, SS
	checks this IE for the presence of activation times for all
	ciphered uplink RLC-UM and RLC-AM RBs.

Contents of SECURITY MODE FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if the value is the identical to the same IE in the downlink SECURITY MODE COMMAND message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Refer to test requirement.

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark	Version
Message Type	A1, A2, A3,		
	A4, A5, A6		
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	
Integrity check info			
- message authentication code		SS calculates the value of MAC-I for	
		this message and writes to this IE. The	
		first/ leftmost bit of the bit string	
		contains the most significant bit of the	
		MAC-I.	
 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		

Information Element	Condition	Value/remark	Version
New C-RNTI	A5, A6	'1010 1010 1010 1010'	
New DSCH-RNTI	A1, A2, A3,	Not Present	
	A4, A5, A6		
New H-RNTI	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6		
RRC State indicator	A1, A2, A3,	CELL_DCH	
	A4		
RRC State indicator	A5, A6	CELL_FACH	
UTRAN DRX cycle length coefficient	A1, A2, A3,	Not Present	
	A4,A5,A6		
CN information info		Not Present	
URA identity		Not Present	
Downlink counter synchronisation info		Not Present	
UL Transport channel information for all	A1, A2, A5,	Not Present	
transport channels	A6		
UL Transport channel information for all	A3, A4		
transport channels			
- PRACH TFCS		Not Present	
- CHOICE mode		FDD	
- TFC subset		Not Present	
- UL DCH TFCS			
- CHOICE TFCI signalling		Normal	
- TFCI Field 1 information		0	
- CHOICE TFCS representation		Complete reconfiguration	
- TFCS complete reconfigure information			
- CHOICE CTFC Size		Number of hits used must be assuable	
- CHOICE CIFC 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	
OTT O Information		and reference to TS34.108 clause	
		6.10.2.4 Parameter Set	
- CTFC		Reference to TS34.108 clause 6.10.2.4	
		Parameter Set	
- Power offset information			
- CHOICE Gain Factors		Computed Gain Factors (The last TFC	
		is set to Signalled Gain Factors)	
- Gain factor βc		11 (below 64 kbps)	
•		9 (higher than 64 kbps)	
		(Not Present if the CHOICE Gain	
		Factors is set to ComputedGain	
		Factors)	
- Gain factor βd		15	
·		(Not Present if the CHOICE Gain	
		Factors is set to ComputedGain	
		Factors)	
- Reference TFC ID		0	
- CHOICE mode		FDD	
- Power offset P p-m		Not Present	
Added or Reconfigured UL TrCH information	A1, A2, A5,	Not Present	
	A6		

Information Element	Condition	Value/remark	Version
Added or Reconfigured UL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for	1 5.5.5
<u> </u>		DTCH)	
 Uplink transport channel type 		DCH '	
 UL Transport channel identity 		5	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		D-f	
- RLC Size		Reference to TS34.108 clause 6.10	
- Number of TBs and TTI List		Parameter Set (This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
_ , , , ,		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
Coding Data		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
Trate matering attribute		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		D (T004 400 1	
- RLC Size		Reference to TS34.108 clause 6.10	
- Number of TBs and TTI List		Parameter Set (This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
Towns of shapped and the s		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
- Coding Rate		Parameter Set Reference to TS34.108 clause 6.10	
- Coding Nate		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.10	
Tato matoring attribute		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
		Parameter Set	
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- TFS		Dedicated transport shares is	
- CHOICE Transport channel type - Dynamic Transport format information		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.10	
1120 0120		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.10	
		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information		B (, T00 / 100)	
- Transmission time interval		Reference to TS34.108 clause 6.10	
- Type of channel coding		Parameter Set Reference to TS34.108 clause 6.10	
- Type of Granner County		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
2003	1		

Information Element	Condition	Value/remark	Version
- Rate matching attribute		Parameter Set Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set	
CHOICE mode	A1,A2,A3, 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	A3,A4		
all transport channel			
- SCCPCH TFCS - CHOICE mode		Not Present FDD	
- CHOICE DL parameters - DL DCH TFCS		Explicit	
- 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	
Added or Reconfigured DL TrCH information	A1, A2, A5, A6	Not Present	

Information Element	Condition	Value/remark	Version
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for	
		DTCH)	
 Downlink transport channel type 		DCH	
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target		Not Dono ant	
- BLER Quality value		Not Present DCH	
Downlink transport channel type DL Transport channel identity		6	
- CHOICE DL parameters		Explicit	
- TFS		Explicit	
- CHOICE Transport channel type		Dedicated transport channel	
- Dynamic transport format information		Bodioated transport charmer	
- RLC Size		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Dynamic transport format information		,	
- Transmission Time Interval		Not Present	
 Number of Transport blocks 		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.10	
_ ,,		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
0.11. 5.4		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
Data matching attribute		Parameter Set Reference to TS34.108 clause 6.10	
- Rate matching attribute		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.10	
- 0100 3126		Parameter Set	
- DCH quality target		Talamotor Cot	
- 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			
- CHOICE Transport channel type		Dedicated transport channel	
- Dynamic transport format information			
- RLC Size		Reference to TS34.108 clause 6.10	
Number of TDs and TT! List		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	
- realition of framsport blocks		Parameter Set	
- Semi-static Transport Format information		. Gramotor Cot	
- Transmission time interval		Reference to TS34.108 clause 6.10	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.10	
,,		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.10	
		Parameter Set	
- 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	
Frequency info	A1,A2,A3,		
LIADECNI unlink (Nu)	A4,A5	Peteronee to clause 5.4 Test	
- UARFCN uplink (Nu)		Reference to clause 5.1 Test	
- UARFCN downlink (Nd)		frequencies Reference to clause 5.1 Test	
- UANEUN UUWIIIIK (NU)	1	I Neierence to clause 3.1 168t	i I

Information Element	Condition	Value/remark	Version
		frequencies	
Frequency info	A6	Not Present	
Maximum allowed UL TX power	A1,A2,A3,	33dBm	
'	A4,A5,A6		
CHOICE channel requirement	A5, A6	Not Present	
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info	
·	A4		
-Uplink DPCH power control info			
- DPCCH power offset		-80dB (i.e. ASN.1 IE value of -40)	
- PC Preamble		1 frame	
- SRB delay		7 frames	
- Power Control Algorithm		Algorithm1	
- TPC step size		1dB	
- Δ ACK		Not Present	REL-5
- Δ _{NACK}		Not Present	REL-5
 Ack-Nack repetition factor 		Not Present	REL-5
- Scrambling code type		Long	
- Scrambling code number		0 (0 to 16777215)	
- Number of DPDCH		Not Present(1)	
- spreading factor		Reference to TS34.108 clause 6.10	
TEOL assistance		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10	
- Number of FBI bit		Parameter Set	
- Number of FBI bit		Reference to TS34.108 clause 6.10 Parameter Set	
- Puncturing Limit		Reference to TS34.108 clause 6.10	
- Functuring Limit		Parameter Set	
CHOICE Mode	A1,A2,A3,	FDD	
CHOICE Widde	A4,A5,A6	FDD	
- Downlink PDSCH information	714,710,710	Not Present	
Downlink HS-PDSCH Information	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6	THE THE SECOND S	
Downlink information common for all radio links	A5, A6	Not Present	
Downlink information common for all radio links	A1, A2, A3		
- Downlink DPCH info common for all RL	, ,		
- Timing indicator		Maintain	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control			
information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0	
- DL rate matching restriction information		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	
Fixed as Florible Desiries		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
- TFCI existence		Parameter Set Reference to TS34.108 clause 6.10	
- II OI GAISIGIICE		Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
3.13.32 31		Parameter Set	
- DPCH compressed mode info		Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value		Not Present	
- MAC-hs reset indicator		Not Present	REL-5
Downlink information common for all radio links	A4		
 Downlink DPCH info common for all RL 			
- Timing indicator		Initialise	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control			
information			
- DPC mode		0 (single)	
- CHOICE mode		FDD	
- Power offset P _{Pilot-DPDCH}		0 Not Present	
- DL rate matching restriction information		Not Present	
- Spreading factor		Reference to TS34.108 clause 6.10	

Information Element	Condition	Value/remark	Version
		Parameter Set	
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10	
TECL sylictors as		Parameter Set	
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set	
- CHOICE SF		Reference to TS34.108 clause 6.10	
- OF IOIOL OF		Parameter Set	
- DPCH compressed mode info		Not Present	
- TX Diversity mode		None	
- SSDT information		Not Present	
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step	
NAAO la a marat in diseatan		of 512	DEL 6
- MAC-hs reset indicator Downlink information for each radio link list	A1, A2, A3	Not Present	REL-5
- Downlink information for each radio links	A1, A2, A0		
- 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	DEL 5
- Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL		FALSE	REL-5
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation		ary or rorrinay bo about	
- DPCH frame offset		Set to value Default DPCH Offset Value	
		(as currently stored in SS) mod 38400	
- Power offset P _{Pilot-DPDCH}		0	
- Secondary CPICH info		Not Present	
- DL channelisation code		4	
- Secondary scrambling code - Spreading factor		4 Reference to TS34.108 clause 6.10	
- Spreading factor		Parameter Set	
- Code number		0	
- Scrambling code change		No change	
- TPC combination index		0	
- SSDT Cell Identity		Not Present	
- Closed loop timing adjustment mode		Not Present	
- SCCPCH information for FACH Downlink information for each radio link list	A4	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 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	DEL 5
- Serving HS-DSCH radio link indicator - Downlink DPCH info for each RL		FALSE	REL-5
- Primary CPICH usage for channel		Primary CPICH may be used	
estimation		ary or fortillay be used	
- DPCH frame offset		Set to value: Default DPCH Offset	
		Value mod 38400	
- Power offset P _{Pilot-DPDCH}		0	
- Secondary CPICH info		Not Present	
- DL channelisation code			
 Secondary scrambling code Spreading factor 		4 Reference to TS34.108 clause 6.10	
Spreading factor		Parameter Set	
- Code number		0	
- Scrambling code change		No change	
- TPC combination index		0	
- SSDT Cell Identity		Not Present	
- Closed loop timing adjustment mode		Not Present	
- SCCPCH information for FACH	1.5	Not Present	
- Downlink information for each radio link	A5	EDD	
- Choice mode		FDD	

Information Element	Condition	Value/remark	Version
- Primary CPICH info			
- Primary scrambling code		Ref. to the Default setting in TS34.108	
		clause 6.1 (FDD)	
- PDSCH with SHO DCH info		Not Present	
- PDSCH code mapping		Not Present	
 Serving HS-DSCH radio link indicator 		FALSE	REL-5
- Downlink DPCH info for each RL		Not present	
- SCCPCH information for FACH		Not Present	
- Downlink information for each radio link	A6	Not Present	

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked
CHOICE mode	FDD
COUNT-C activation time	Not checked
Radio bearer uplink ciphering activation time info	Not checked
Uplink counter synchronisation info	Not present

Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL_DCH)

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
CHOICE mode	FDD
DPCH/PUSCH TFCS in Uplink	
- CHOICE Subset representation	Allowed transport format combination list
 Allowed Transport format combination 	0 (The TFC is constructed from ALL TF0)
Activation time for TFC subset	Not Present
TFC Control duration	Not Present

Contents of TRANSPORT FORMAT COMBINATION CONTROL FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most
- RRC Message sequence number	significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement

Contents of UE CAPABILITY ENQUIRY message: AM or UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number Capability update requirement	SS provides the value of this IE, from its internal counter.
- UE radio access FDD capability update requirement	TRUE
- UE radio access TDD capability update requirement	FALSE
- System specific capability update requirement	Not Present

Contents of UE CAPABILITY INFORMATION message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
UE radio access capability	Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings
- Access stratum release indicator - PDCP Capability	
- RLC Capability - Transport channel capability	
- RF Capability FDD - RF Capability TDD	
 Physical channel capability UE multi-mode/multi-RAT capability Security Capability 	
- UE positioning Capability - Measurement capability	
UE radio access capability extension	Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings
UE system specific capability	Not Checked

Contents of UE CAPABILITY INFORMATION CONFIRM message: UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Set to the same value as received in the UE CAPABILITY
	INFORMATON message.
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and
	writes to this IE. The first/ leftmost bit of the bit string
	contains the most significant bit of the MAC-I.
- RRC Message 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	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
URA update cause	See the test content
Protocol error indicator	Checked to see if it is absent or set to 'FALSE'
Protocol error information	Checked to see if it is absent

Contents of URA UPDATE CONFIRM message: UM

Information Element	Value/remark
Message Type	
U-RNTI	If this message is sent on CCCH, use the following
	values. Else, this IE is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Arbitrarily selects and integer between 0 and 3
Integrity check info	,
- message authentication code	SS calculates the value of MAC-I for this message and
	writes to this IE. The first/ leftmost bit of the bit string
	contains the most significant bit of the MAC-I.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
Integrity protection mode info	Not Present
Ciphering mode info	Not Present
New U-RNTI	Not Present
New C-RNTI	Not Present
RRC state indicator	URA_PCH
UTRAN DRX cycle length coefficient	3
CN information info	Not Present
URA identity	Not Present
Downlink counter synchronisation info	Not Present

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
CN domain identity	Checked to see if set to a CN domain for which a signalling connection exists
NAS message	Set according to that indicated in specific message content clause
Measured results on RACH	Not checked

Contents of UTRAN MOBILITY INFORMATION message: AM or UM $\,$

Information Element	Value/remark
Message Type	
Integrity check info	
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity protection mode info	Not Present
Ciphering mode info	Not Present
New U-RNTI	See the test content
New C-RNTI	See the test content
UE Timers and constants in connected mode	
- T301	2000 milliseconds
- N301	2
- T302	4000 milliseconds
- N302	3
- T304	1000 milliseconds
- N304	3
- T305	60 minutes
- T307	50 seconds
- T308	320 milliseconds
- T309	8 seconds
- T310	320 milliseconds
- N310	5
- T311	500 milliseconds
- T312	5 seconds
- N312	200
- T313	10 seconds
- N313	200
- T314	20 seconds
- T315	30 seconds
- N315	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	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked
COUNT-C activation time	Not checked
Radio bearer uplink ciphering activation time info	Not checked
Uplink counter synchronisation info	Not present

Contents of UTRAN MOBILITY INFORMATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure Cause	Checked to see if it meets test requirement

9.1.2 Default Message Contents for Signalling (TDD)

Contents of RRC STATUS message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Identification of received message	Not checked
Protocol error information	
- Protocol error cause	Refer to test requirement.

Contents of SECURITY MODE FAILURE message: AM

Information Element	Value/remark
Message Type	
UE information elements	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Refer to test requirement.

Contents of URA UPDATE message: TM

Information Element	Value/remark
Message Type	
U-RNTI	Checked to see if it is set to the following values
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Checked to see if it is absent
Integrity check info	

Information Element	Value/remark
 Message authentication 	This IE is checked to see if it is present. The value is
code	compared against the XMAC-I value computed by SS. The
	first/ leftmost bit of the bit string contains the most significant
	bit of the MAC-I.
 RRC Message sequence 	This IE is checked to see if it is present. The value is used by
number	SS to compute the XMAC-I value.
URA update cause	See the test content
Protocol error indicator	Checked to see if it is absent or set to 'FALSE'
Protocol error information	Checked to see if it is absent

Contents of URA UPDATE CONFIRM message: UM

Information Element	Value/remark
Message Type	
U-RNTI	If this message is sent on CCCH, use the following values.
	Else, this IE is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Arbitrarily selects and integer between 0 and 3
Integrity check info	
 Message authentication 	Set to MAC-I value computed by the SS. The first/ leftmost bit
code	of the bit string contains the most significant bit of the MAC-I.
 RRC Message Sequence 	Set to an arbitrarily selected integer between 0 and 15
Number	
Integrity protection mode info	Not present
Ciphering mode info	Not present
New U-RNTI	Not present
New C-RNTI	Not present
RRC State Indicator	URA_PCH
UTRAN DRX cycle length	3
coefficient	
CN Information info	Not present
URA identity	See the test content
Downlink counter	Not present
synchronisation info	

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
CN domain identity	Checked to see if set to a CN domain for which a signalling connection exists
NAS message	Set according to that indicated in specific message content for each test case
Measured results on RACH	Not checked

Contents of UTRAN MOBILITY INFORMATION message: AM or UM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication	Set to MAC-I value computed by the SS. The first/ leftmost bit
code	of the bit string contains the most significant bit of the MAC-I.
- RRC Message Sequence	Set to an arbitrarily selected integer between 0 and 15

Information Element	Value/remark
Number	
RRC transaction identifier	Arbitrarily selects and integer between 0 and 3
Integrity protection mode info	Not present
Ciphering mode info	Not present
New U-RNTI	See the test content
New C-RNTI	See the test content
UE Timers and constants in	
connected mode	
- T301	2000 milliseconds
- N301	2
- T302	4000 milliseconds
- N302	3
- T304	1000 milliseconds
- N304	3
- T305	60 minutes
- T307	50 seconds
- T308	320 milliseconds
- T309	8 seconds
- T310	320 milliseconds
- N310	5
- T311	500 milliseconds
- T312	5 seconds
- N312	200
- T313	10 seconds
- N313	200
- T314	20 seconds
- T315	30 seconds
- N315	200
- T316	50 seconds
- T317	1800 seconds
CN Information info	Not present
URA identity	Not present
Downlink counter	Not present
synchronisation info	

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked
COUNT-C activation time	Not checked
Radio bearer uplink ciphering activation time info	Not checked
Uplink counter synchronisation info	Not checked

Contents of UE CAPABILITY ENQUIRY message

Information Element	Value/remark
Message Type	UE CAPABILITY ENQUIRY
Integrity check info	Not Present
- Message authentication code	If present, SS calculates the value of MAC-I for this message

Information Element	Value/remark
- RRC Message sequence number	and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. If present, SS provides the value of this IE, from its internal counter.
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Capability update requirement	
- UE radio access FDD capability update requirement	FALSE
- UE radio access 3.84 Mcps TDD capability update requirement	FALSE
- UE radio access 1.28 Mcps TDD capability update requirement	TRUE
- System specific capability update requirement list	Not Present

Contents of UE CAPABILITY INFORMATION message (1.28 Mpcs TDD)

Information Element	Value/remark
Message Type	UE CAPABILITY INFORMATION
Integrity check info	Not Present
- Message authentication code	If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	If present, SS provides the value of this IE, from its internal counter.
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.
UE radio access capability	Present
- Access stratum release indicator	REL-5
- DL capability with simultaneous HS-DSCH	Not Present
configuration - PDCP capability	
- Support for lossless SRNS relocation	TRUE
- Support for RFC2507	TRUE
- Max HC context space	512
- Support for RFC3095	FALSE
- RLC capability	
- Total RLC AM buffer size	150
- Maximum RLC AM Window Size	2047
- Maximum number of AM entities	30
- Transport channel capability	
- Downlink transport channel capability information	
elements	
- Max number of bits received	640
- Max convolutionally coded bits received	6400
- Max turbo coded bits received	6400
- Max number of simultaneous transport channels	8
- Maximum number of simultaneous CCtrCH	1
- Max number of received transport blocks	32
- Max number of TFC	128
- Max number of TF	64
- Turbo decoding supported	TRUE
- Uplink transport channel capability information	
elements	
- Max number of bits transmitted	6400
Max convolutionally coded bits transmitted	6400
- Max turbo coded bits transmitted	6400
- Max number of simultaneous transport channels	8
- Max number of simultaneous CCTrCH of DCH	
- Max number of transmitted transport blocks	16
- max number of TFC	64
- Max number of TF	32
- Turbo coding supported	TRUE
- RF capability FDD	Not Present
- RF capability TDD	Present
- UE power class	1
- Radio frequency bands	a
radio rioquorioj barido	, s

Information Element	Value/remark
- Chip rate capability	1.28 Mcps
- Physical channel capability	
-Downlink physical channel capability information	
- FDD physical channel capability	Not Present
- 3.84 Mcps TDD downlink physical channel	Not Present
capability	1101111000111
- 1.28 Mcps TDD downlink physical channel	Present
capability	1 Toodik
- maxTS per subFrame	6
- max physical channel per frame	96
- min. SF	16
- Support of PDSCH	FALSE
- Support of HS-PDSCH	Unsupported
- max. physical channel per TS	16
- Support of 8psk	FALSE
-Uplink physical channel capability information	TALOL
- FDD physical channel capability	Not Present
- 3.84 Mcps TDD uplink physical channel capability	Not Present
- 1.28 Mcps TDD uplink physical channel capability	Present
- maxTS per subFrame	
	6 2
- max physical channel per timeslot - min. SF	
	16 FALSE
- Support of PDSCH	
- max. physical channel per TS	16
- Support of 8psk	FALSE
- UE multi-mode/multi-RAT capability	
- MultiRAT capability List	FALCE
- Support of Multicorrier	FALSE
- Support of Multicarrier	TRUE
- MultiMode capability	TDD
- Support of UTRAN to GERAN NACC	FALSE
- Security capability	
- Ciphering algorithm capability	FALCE
- UEA0	FALSE
- UEA1	FALSE
- Spare	FALSE
- Integrity protection algorithm	ENICE
- UIA1	FALSE
- Spare	FALSE
- UE positioning capability	FALCE
- Standalone location method(s) supported	FALSE
- UE based OTDOA supported	FASLE
- Network Assisted GPS support	None
- Support for GPS timing of cell frames	FALSE
measurement	FALSE
- Support for IPDL	FALSE
- Support for RX-TX time difference type2	FALSE
measurement	EALOE
- Support for Up measurement validaity in CELL-	FALSE
PCH and URA-PCH states	Not Decemb
- Measurement capability	Not Present
UE system specific capability	Not present

Contents of UE CAPABILITY INFORMATION CONFIRM message

Information Element	Value/remark
Message Type	UE CAPABILITY INFORMATION
Integrity check info	Not Present
- Message authentication code	If present, SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	If present, SS provides the value of this IE, from its internal counter.
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

Information Element	Condition	Value/remark	Versio
Message Type	A1, A2, A3,		
	A4, A5, A6		
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	
Integrity check info			
 message authentication code 		SS calculates the value of MAC-I for this	
		message and writes to this IE. The first/	
		leftmost bit of the bit string contains the most	
		significant bit of the MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from its	
		internal counter.	
Integrity protection mode info		Not Present	
Ciphering mode info	44 40 40	Not Present	
Activation time	A1, A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256	
Activation time	A4, A5, A6	Now	
New U-RNTI	A4 A0 A0	Not Present	
New C-RNTI	A1, A2, A3, A4	Not Present	
New C-RNTI	A5, A6	'1010 1010 1010 1010'	
New DSCH-RNTI	A1, A2, A3,	Not Present	-
New Book Fixed I	A4, A5, A6	Not i resent	
New H-RNTI	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6		0
RRC State indicator	A1, A2, A3,	CELL_DCH	
	A4	_	
RRC State indicator	A5, A6	CELL_FACH	
UTRAN DRX cycle length coefficient	A1, A2, A3,	Not Present	
	A4,A5,A6		
CN information info		Not Present	
URA identity		Not Present	
Downlink counter synchronisation info		Not Present	
UL Transport channel information for all transport	A1, A2, A5,	Not Present	
channels	A6		

Information Element	Condition	Value/remark	Versio
UL Transport channel information for all transport	A3, A4		
channels			
- PRACH TFCS		Not Present	
- CHOICE mode		TDD	
 Individual UL CCTrCH information 			
- UL TFCS Identity			
- TFCS ID		1	
- Shared Channel Indicator		FALSE	
- UL TFCS			
- CHOICE <i>TFCI</i> signalling		Normal	
- TFCI Field 1 Information			
- CHOICE TFCS representation		Complete reconfiguration	
- TFCS complete reconfiguration information		Compress recoming manual	
- CHOICE CTFC Size		Number of bits used must be enough to cover	
		all combinations of CTFC from TS34.108	
		clause 6.11.5.4 Parameter Set.	
- CTFC information		This IE is repeated for TFC numbers and	
		reference to TS34.108 clause 6.11.5.4	
		Parameter Set	
- CTFC		Reference to TS34.108 clause 6.11.5.4	
		Parameter Set	
- Power offset information		- anamotor out	
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to	
0.10.02 00 00.0.0		Signalled Gain Factors)	
- Reference TFC ID		0 Integer(0 3)	
- CHOICE Gain Factors		Signalled Gain Factors(Not Present if the	
CHOICE CAITT actors		CHOICE Gain Factors is set to ComputedGain	
		Factors)	
- CHOICE mode		TDD	
- Gain Factor β_d		15	
- Reference TFC ID		0 Integer(0 3)	
- CHOICE mode		TDD	
- TFC subset			
- CHOICE Subset representation		Full transport format combination set	
- TFC subset list		Not Present	
Added or Reconfigured TrCH information list	A1, A2, A5,	Not Present	
Added of Neconinguied FIOH IIIIOIIIIalion list	A1, A2, A5,	NOT LESCH	
	I AO	1	

Information Element	Condition	Value/remark	Versio
Added or Reconfigured TrCH information list	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)	
- Added or Reconfigured UL TrCH information			
- Uplink transport channel type		DCH	
- UL Transport channel identity		5	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		D (T004 400	
- RLC Size		Reference to TS34.108 clause 6.11 Parameter	
- Number of TBs and TTI List		Set This IE is reposted for mayTE number	
- Transmission Time Interval		This IE is repeated for maxTF number Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11 Parameter	
- Number of Transport blocks		Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information		7 VII	
- Transmission time interval		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- Type of channel coding		Reference to TS34.108 clause 6.11 Parameter	
31		Set	
- Coding Rate		Reference to TS34.108 clause 6.11 Parameter	
J J		Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- CRC size		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		D (
- RLC Size		Reference to TS34.108 clause 6.11 Parameter	
North an of TD and TTI List		Set	
- Number of TBs and TTI List - Transmission Time Interval		This IE is repeated for maxTF number Not Present	
		Reference to TS34.108 clause 6.11 Parameter	
- Number of Transport blocks		Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information		7 VII	
- Transmission time interval		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- Type of channel coding		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- Coding Rate		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- CRC size		Reference to TS34.108 clause 6.11 Parameter	
	<u> </u>	Set	
Added or Reconfigured TrCH information list	A3	(DCH for DTCH)	
- 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		Dedicated transport charmers	
- RLC Size		Reference to TS34.108 clause 6.11 Parameter	
TALO OIZO		Set	
- Number of TBs and TTI List	1 to maxTF	(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- Type of channel coding		Reference to TS34.108 clause 6.11 Parameter	
		Set	

Information Element	Condition	Value/remark	Versio
- Coding Rate		Reference to TS34.108 clause 6.11 Parameter	
		Set	
 Rate matching attribute 		Reference to TS34.108 clause 6.11 Parameter	
		Set	ļ
- CRC size		Reference to TS34.108 clause 6.11 Parameter	
		Set	
CHOICE mode	A1,A2,A3,	TDD	
D. E. LUO DDOOLLI (A4,A5,A6		
Downlink HS-PDSCH Information			REL-5
DL Transport channel information common for all	A1, A2,	Not Present	
transport channels	A5,A6		
DL Transport channel information common for all	A3,A4		
transport channel		Net Decemb	
- SCCPCH TFCS		Not Present	
- CHOICE mode - Individual DL CCTrCH information		TDD	
- DL TFCS Identity			
- DE TPGS Identity - TFCS ID		2	
- Shared Channel Indicator		Z FALSE	
- CHOICE DL parameters		Independent	
- DL TFCS		macpendent	
- CHOICE TFCI Signalling		Normal	
- TFCI Field 1 Information		Normal	
- CHOICE TFCS representation		Complete reconfiguration	
- TFCS complete reconfiguration information		garanen	
- CHOICE CTFC Size		Number of bits used must be enough to cover	
6.16.62 6.17 6 6. <u>2</u> 6		all combinations of CTFC from clause	
		TS34.108 clause 6.11.5.4 Parameter Set.	
- CTFC information		This IE is repeated for TFC numbers and	
		reference to TS34.108 clause 6.11.5.4	
- CTFC		Reference to TS34.108 clause 6.11.5.4	
		Parameter Set	
 Power offset information 		Not Present	
Added or Reconfigured TrCH information list	A1, A2, A5,	Not Present	
	A6		

Information Element	Condition	Value/remark	Versio
Added or Reconfigured TrCH information list	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)	
 Added or Reconfigured DL TrCH information 			
 Downlink transport channel type 		DCH	
 DL Transport channel identity 		10	
- CHOICE DL parameters		Same as UL	
 Uplink transport channel type 		DCH	
- UL TrCH identity		5	
- DCH quality target			
- BLER Quality value		-2.0 Real(-6.30 by step of 0.1)	
 Transparent mode signalling info 		Not Present	
 Downlink transport channel type 		DCH	
- DL Transport channel identity		6	
- CHOICE DL parameters		Explicit	
- TFS			
 CHOICE Transport channel type 		Dedicated transport channels	
 Dynamic transport format information 			
- RLC Size		Reference to TS34.108 clause 6.11 Parameter	
		Set	
 Number of TBs and TTI List 		(This IE is repeated for TF number.)	
 Transmission Time Interval 		Not Present	
 Number of Transport blocks 		Reference to TS34.108 clause 6.11 Parameter	
		Set	
 Semi-static Transport Format information 			
 Transmission time interval 		Reference to TS34.108 clause 6.11 Parameter	
		Set	
 Type of channel coding 		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- Coding Rate		Reference to TS34.108 clause 6.11 Parameter	
-		Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11 Parameter	
000 :		Set	
- CRC size		Reference to TS34.108 clause 6.11 Parameter	
DCU quality target		Set	
 DCH quality target BLER Quality value 		-2.0	
- Transparent mode signalling info		Not Present	
Added or Reconfigured TrCH information list	A3	Not i lesent	
- Added or Reconfigured DL TrCH information	A3		
- Downlink transport channel type		DCH	
- DL Transport channel identity		6	
- CHOICE DL parameters		Explicit	
- TFS		LAPHOR	
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic transport format information		Dedicated transport charmers	
- RLC Size		Reference to TS34.108 clause 6.11 Parameter	
1120 0120		Set	
- Number of TBs and TTI List		(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11 Parameter	
ramon of transport blooks		Set	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11 Parameter	
Transmission and marka		Set	
- Type of channel coding		Reference to TS34.108 clause 6.11 Parameter	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Set	
- Coding Rate		Reference to TS34.108 clause 6.11 Parameter	
g		Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11 Parameter	
ŭ		Set	
- CRC size		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- DCH quality target			
- BLER Quality value		-2.0	
- Transparent mode signalling info		Not Present	
Frequency info	A1, A2, A3,		
	A4, A5		
- Choice mode		TDD	

Information Element	Condition	Value/remark	Versio
- UARFCN (Nt)		Reference to clause 5.1 Test frequencies	
Frequency info	A6	Not Present	
Maximum allowed UL TX power		33dBm	
CHOICE channel requirement	A5, A6	Not Present	
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info	
- Uplink DPCH power control info		TED D	DEL 4
- CHOICE mode		TDD	REL-4
- CHOICE TDD option		1.28 Mcps TDD	REL-4
- PRXPDPCHdes - CHOICE UL OL PC info		-80 Integer(-12058 by step of 1) Individually Signalled	
- CHOICE OL OL PC IIIIO - CHOICE TDD option		, ,	
- TPC step size		1.28 Mcps TDD	
- Primary CCPCH Tx Power		20 Integer(643)	
- CHOICE mode		20 Integer (643)	
- Uplink Timing Advance Control		100	
- CHOICE Timing Advance		Enabled	
- CHOICE TITIING Advance		1.28 Mcps TDD	
- Uplink synchronisation parameters		1.20 1/10/20 100	
- Uplink synchronisation step size		1	
- Uplink synchronisation step size - Uplink synchronisation frequency		1	
- Synchronisation parameters		<u>'</u>	
- SYNC_UL codes bitmap		01010101	
- FPACH info			
- Timeslot number		0	
- Channelisation code		16/15	
- Midamble Shift and burst type		10,10	
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble Allocation Mode		Default midamble	
- Midamble configuration		16 Integer(2, 4, 6, 8, 10, 12, 14, 16)	
- WT		4 Integer(14)	
- PRXUpPCHdes		-80 dBm	
- SYNC_UL procedure		00 45111	
- Max SYNC_UL Transmissions		2	
- Power Ramp Step		2	
- UL CCTrCH List			
- TFCS ID		1	
- UL Target SIR		Real (-11 20 by step of 0.5dB)	
or ranger one		Reference to TS34.108 Parameter set.	
- Time info			
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration		Infinite	
- Common timeslot info			
- 2 nd interleaving mode		Default value is "Frame"	
- TFCI coding		Reference to TS34.108 clause 6 Parameter	
- Puncturing limit		set Reference to TS34.108 clause 6 Parameter set	
- Repetition period		1	
- Repetition length			
- Uplink DPCH timeslots and code			
- Dynamic SF usage		FALSE	
- First individual timeslot info			
- Timeslot number			
- CHOICE TDD option		1.28 Mcps TDD	
- Timeslot number		1 OR 2 OR 3	
- TFCI existence		TRUE	
- Midamble shift and burst type			
- CHOICE TDD option		1.28 Mcps TTD	
- Midamble allocation mode		Default midamble	
- Midamble configuration		16	

Information Element	Condition	Value/remark	Versio
- Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
 Additional TPC-SS Symbols 		Not present	
- First timeslot Code List		Repeated (1,2) for each channelisation code	
		assigned in the slot to meet the needs	
		of TS34.108 clause 6 Parameter Set.	
 channelisation codes 		(SF/ i) where i denotes an unassigned code	
		matching the SF specified in TS34.108	
		clause 6 Parameter Set.	
- CHOICE more timeslots		No more timeslots	
- UL CCTrCH List to Remove		Not present	
CHOICE Mode	A1, A2, A3,	TDD	
	A4, A5, A6		
Downlink HS-PDSCH Information	A1, A2, A3,	Not Present	
	A4, A5, A6		
Downlink information common for all radio links	A1, A2, A3		
- Downlink DPCH info common for all RL		Maintain	
- Timing indication - CFN-targetSFN frame offset		Maintain Not Present	
- CFN-targetSFN frame offset - Downlink DPCH power control information		וויטנ רופספוונ	
- CHOICE mode		TDD	
- TPC Step Size		1 1	
- MAC-d HFN initial value		Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value		Not Present	
Downlink information common for all radio links	A4		
- Downlink DPCH info common for all RL			
- Timing indication		Initialise	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control information		TDD	
- CHOICE mode		TDD	
- TPC Step Size - MAC-d HFN initial value		1 Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value			
- CHOICE mode		TDD	
- Default DPCH Offset Value		0 Integer(07)	
Downlink information common for all radio links	A5, A6	Not Present	
Downlink information per radio link list	A1, A2,A3		
- Downlink information for each radio link			
- Choice mode		TDD	
- Primary CCPCH info			
- Choice mode		TDD	
- Choice TDD Option		1.28 Mcps TDD	
- TSTD indicator		FALSE Ref. to the Default cetting in TS24 109 clause	
- Cell parameters ID		Ref. to the Default setting in TS34.108 clause	
- SCTD indicator		6.1 (TDD) Integer(0127) FALSE	
- SCTD Indicator - Downlink DPCH info for each RL		1 / LOL	
- CHOICE mode		TDD	
- DL CCTrCh List			
- TFCS ID		2 Integer(1.8)	
- Time info		-3(/	
- Activation time		Now	
- Duration		Infinite	
- Common timeslot info			
 2nd interleaving mode 		Default value is "Frame"	
- TFCI coding		Reference to TS34.108 clause 6 Parameter	
= = = = = = = = = = = = = = = = = = = =	1	<u> </u>	

Information Element	Condition	Value/remark	Versio
- Puncturing limit		set Reference to TS34.108 clause 6 Parameter set	
- Repetition period		1	
- Repetition length		NULL	
- Downlink DPCH timeslots and codes			
- First individual timeslot info			
- Timeslot number			
- CHOICE TDD option		1.28 Mcps TDD	
- Timeslot number		4 OR 5 OR 6	
- TFCI existence		TRUE	
 Midamble shift and burst type 			
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble allocation mode		Default midamble	
- Midamble configuration		16	
- Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
- Additional TPC-SS Sysbols		Not present	
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs	
		of TS34.108 clause 6 Parameter Set.	
- CHOICE codes representation		or red integrated or draineter eat.	
- Channelisation codes bitmap		Reference to TS34.108 clause 6.11 Parameter	
		Set	
- CHOICE more timeslots		No more timeslots	
- UL CCTrCH TPC List		This list is not required for 1.28 Mcps TDD and	
LIL TDC TCCs Identify		is to be ignored by the UE.	
- UL TPC TFCS Identity - TFCS ID		1	
- Shared Channel Indicator		FALSE	
- DL CCTrCH List to Remove		Not present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A4		
- Downlink information for each radio link			
- Choice mode		TDD	
- Primary CCPCH info		TDD	
- Choice mode - Choice TDD Option		TDD 1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Cell parameters ID		Ref. to the Default setting in TS34.108 clause	
·		6.1 (TDD) Integer(0127)	
- SCTD indicator		FALSE	
- Downlink DPCH info for each RL		TDD	
- CHOICE mode - DL CCTrCh List		Not Present	
- DL CCTrCH List to Remove		Not present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A5		
- Downlink information for each radio link		TOD	
- Choice mode		TDD	
- Primary CCPCH info - Choice mode		TDD	
- Choice TDD Option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Cell parameters ID		Ref. to the Default setting in TS34.108 clause	
		6.1 (TDD) Integer(0127)	
- SCTD indicator		FALSE	
- Downlink DPCH info for each RL - SCCPCH Information for FACH		Not Present Not Present	
Downlink information per radio link list	A6	Not Present	
Dominin information per radio link list	7.0	110(110001)(L

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message	
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.	
Uplink integrity protection activation info	Not checked	
CHOICE mode	TDD	REL-4
CHOICE TDD option	1.28 Mcps TDD	REL-4
COUNT-C activation time	Not checked	
Radio bearer uplink ciphering activation time info	Not checked	
Uplink counter synchronisation info	Not checked	

Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL_DCH)

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
CHOICE mode	TDD
- TFCS Id	
- TFCS ID	1
- Shared Channel Indicator	FALSE
DPCH/PUSCH TFCS in uplink	
- CHOICE Subset representation	Allowed transport format combination list
 Allowed transport format combination list 	0 (The TFC is constructed from ALL TF0)
Activation time for TFC subset	Now
TFC Control duration	Not Present

Contents of TRANSPORT FORMAT COMBINATION CONTROL FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement

Contents of RRC CONNECTION REJECT message: $\ensuremath{\mathsf{UM}}$

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Initial UE identity	Select the same type as in the IE "Initial UE Identity" in
•	RRC CONNECTION REQUEST" message.
Rejection cause	Unspecified
Wait Time	0
Redirection info	Not Present

Contents of CELL UPDATE message: TM

Information Element	Value/remark
Message Type	
U-RNTI	Checked to see if it is set to the following values
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Checked to see if it is absent
Integrity check info	
 Message authentication code 	This IE is checked to see if it is present. The value is
	compared against the XMAC-I value computed by SS.
	The first/ leftmost bit of the bit string contains the most
	significant bit of the MAC-I.
 RRC Message sequence number 	This IE is checked to see if it is present. The value is
	used by SS to compute the XMAC-I value.
START List	Checked to see if the 'CN domain identity' and
	'START' IEs are present for all CN domains supported
	by the UE
- CN domain identity	Checked to see if it is one of the supported CN
	domains
- START	Checked to see if it is present
AM_RLC error indication (RB2, RB3 or RB4)	Checked to see if it is set to 'FALSE'
AM_RLC error indication (RB>4)	Checked to see if it is set to 'FALSE'
Cell update cause	See the test content
Failure cause	Checked to see if it is absent
RB timer indicator	
- T314 expired	Checked to see if it is set to 'FALSE'
- T315 expired	Checked to see if it is set to 'FALSE'
Measured results on RACH	Not checked

Contents of CELL UPDATE CONFIRM message: UM

Information Element	Value/remark
Message Type	
U-RNTĪ	If this message is sent on CCCH, use the following values. Else, this IE is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier Integrity check info	Selects an arbitrary integer between 0 to 3
- Message authentication code	Set to MAC-I value computed by the SS. The first/leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15

	Lu.s
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	FALSE
RB4)	
RLC re-establish indicator (RB5 and	FALSE
upwards)	
CN information info	Not Present
URA identity	
-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	Not Present
for all transport channels	
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	Not Present
CHOICE Mode	TDD
DL Transport channel information common	Not Present
for all transport channels	
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	Not Present
Frequency info	Not Present
Maximum allowed UL TX power	Not Present
CHOICE channel requirement	Not Present
CHOICE mode	TDD
Downlink information common for all radio	Not Present
links	
Downlink information per radio link list	Not Present

Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I
 RRC Message sequence number 	Set to an arbitrarily selected integer between 0 and 15
Activation time	Not Present – use default value 'now'
RAB info	For each RAB to be handed over. In this version, the maximum size of the list of 1 shall be applied for all system types.
- RAB identity	0000 0001B
- CN domain identity	CS domain
 NAS Synchronization Indicator 	Not present
- Re-establishment time	Use T315
CHOICE System type	GSM
- Frequency band	Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this test. Otherwise set to "GSM/DCS 1800 Band"
- CHOIC GSM message	Single GSM message
- Single GSM message	GSM HANDOVER COMMAND formatted and coded according to GSM specifications as BIT STRING (1512). The first/ leftmost/ most significant bit of the bit string contains bit 8 of the first octet of the GSM message. The contents of the HANDOVER COMMAND is to be defined in the specific test case.

Contents of HANDOVER FROM UTRAN FAILURE message: AM

Information Element/Group name	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the same value used in the corresponding downlink HANDOVER FROM UTRAN COMMAND –GSM message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Inter-RAT handover failure	
- Inter-RAT handover failure cause	physical channel failure
- Protocol error information	Check to see if it is absent
Inter-system message	Not checked

Contents of MEASUREMENT CONTROL Message: AM (Intra-frequence measurement) (1.28 Mcps TDD)

Information Element Message Type UE information elements RRC transaction identifier Integrity check info - Message authentication code RRC message sequence number Measurement information elements Value/remark Arbitrarily selects an unused integer between 0 to SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit strict contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal of the measurement information elements	and ng
UE information elements RRC transaction identifier Integrity check info - Message authentication code - RRC message sequence number Measurement information elements Arbitrarily selects an unused integer between 0 to SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit striction to the MAC-I. SS provides the value of this IE, from its internal of the MAC-I.	and ng
RRC transaction identifier Integrity check info - Message authentication code - RRC message sequence number Measurement information elements Arbitrarily selects an unused integer between 0 to SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit strict contains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal of the strict contains the most significant bit of the MAC-I.	and ng
Integrity check info - Message authentication code SS calculates the value of MAC-I for this message writes to this IE. The first/ leftmost bit of the bit stricontains the most significant bit of the MAC-I. SS provides the value of this IE, from its internal of the material of the material contains the most significant bit of the MAC-I.	and ng
writes to this IE. The first/ leftmost bit of the bit striction contains the most significant bit of the MAC-I. - RRC message sequence number SS provides the value of this IE, from its internal of the bit striction of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the bit striction contains the most significant bit of the MAC-I.	ng
Measurement information elements	ounter.
Measurement Identity 1	
Measurement Command Setup	
Measurement Reporting Mode	
- Measurement Report Transfer Mode Acknowledged mode RLC	
- Periodical Reporting/Event Trigger Reporting Mode Periodical reporting	
Additional measurement list Not Present	
CHOICE Measurement type Intra-frequency measurement	
- Intra-frequency measurement	
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal Not present	
- New intra-frequency cell - Intra-frequency cell-id 1	
- Intra-frequency cell-id 1 - Cell info	
- Cell individual offset 0dB	
- Reference time difference to cell Not Present	
- Read SFN number FALSE	
- CHOICE mode TDD	
- Primary CCPCH info	
- CHOICE mode TDD	
- CHOICE TDD option 1.28 Mcps TDD	
-TSTD indicator FALSE	TDD'
- Cell parameters ID Reference clause 6.1.4 Default settings for cell 1(*) - SCTD indicator FALSE	(טטו)
- Primary CCPCH Tx power Not present	
- Timeslot list Not present	
- Cells for measurement Not present	
- Intra-frequency measurement quantity	
- Filter coefficient Not present (use default 0)	
- CHOICE mode - Measurement quantity list	
- Measurement quantity Primary CCPCH RSCP	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronisation information reporting indicator	
- Cell Identity reporting indicator TRUE	
- CHOICE mode TDD	
- Timeslot ISCP reporting indicator FALSE	
- Proposed TGSN reporting indicator FALSE - Primary CCPCH RSCP reporting indicator FALSE	
- Pathloss reporting indicator FALSE	
- Reporting quantities for monitored set cells	
- Cell synchronisation information reporting FALSE	
indicator	
- Cell Identity reporting indicator TRUE	
- CHOICE mode TDD	
- Timeslot ISCP reporting indicator FALSE	
- Proposed TGSN reporting indicator FALSE	
- Primary CCPCH RSCP reporting indicator FALSE	
 - Pathloss reporting indicator - Reporting quantities for detected set cells 	
- Reporting quantities for detected set cells - Reporting cell status Not present	
- Measurement validity Not present	
- CHOICE report criteria Intra-frequency measurement reporting criteria	

 Parameters required for each event 	
 Intra-frequency event identity 	1g
- Triggering condition 1	Not present
	(this IE is MP only for event "1b" or "1f", TDD should not
	present)
- Triggering condition 2	Not present
	(this IE is MP only for event "1c", TDD should not
	present)
- Reporting Range Constant	Not present
	(this IE is MP only for event "1a" or "1b", TDD should not
	present)
- Cells forbidden to affect Reporting range	Not present
	(this IE is MP only for event "1a" or "1b", TDD should not
	present)
- W	Not present
	(this IE is MP only for event "1a" or "1b", TDD should not
	present)
- Hysteresis	0 dBm
- Threshold used frequency	Not present
·	(this IE is MP only for event "1e", "1f", "1h" or "1i")
- Reporting deactivation	Not present
threshold	(this IE is MP only for event '1a', TDD should not
	present)
- Replacement activation	Not present
threshold	(this IE is MP only for event '1c' TDD should not present)
- Time to trigger	0 ms
- Amount of reporting	Not present
	(this IE is MP only for event '1a' or '1c' TDD should not
	present)
- Reporting interval	Not present
	(this IE is MP only for event '1a' or '1c', TDD should not
	present)
- Reporting cell status	Not present
Physical channel information elements	
DPCH Compressed mode status info	Not Present

Contents of MEASUREMENT CONTROL Message: AM (Inter-frequence measurement) (1.28 Mcps TDD)

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Contents of MEXICON EMERTY CONTINUE Micologic.	
Information Element	Value/remark
Message Type UE information elements	
RRC transaction identifier	Arbitrarily colocts on unused integer between 0 to 2
Integrity check info	Arbitrarily selects an unused integer between 0 to 3
- Message authentication code	SS calculates the value of MAC-I for this message and
Message admentication code	writes to this IE. The first/ leftmost bit of the bit string
	contains the most significant bit of the MAC-I.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
Measurement information elements	•
Measurement Identity	2
Measurement Command	Setup
Measurement Reporting Mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting/Event Trigger Reporting	Periodical reporting
Mode Additional measurement list	Not present
CHOICE Measurement type	Inter-frequency measurement
- Inter-frequency measurement	inter-frequency measurement
- Inter-frequency cell info list	
- CHOICE inter-frequency cell removal	Not present
- New inter-frequency cell	·
- Inter-frequency cell-id	4
- Frequency info	
- CHOICE mode	TDD
- UARFCN (Nt)	Reference to table 6.1.7 for cell 4
- Cell info	0dB
 Cell individual offset Reference time difference to cell 	Not Present
- Read SFN number	FALSE
- CHOICE mode	TDD
- Primary CCPCH info	155
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
-TSTD indicator	FALSE
- Cell parameters ID	Reference clause 6.1.4 Default settings for cell 4(TDD)
- SCTD indicator	FALSE
- Primary CCPCH Tx power	Not present
- Timeslot list - Cells for measurement	Not present
- Cells for measurement - Inter-frequency measurement quantity	Not present
- CHOICE reporting criteria	Inter-frequency reporting criteria
Inter-frequency reporting criteria	The requestoy reporting enteria
- Filter coefficient	Not present (use default 0)
- CHOICE mode	TDD '
 Measurement quantity for frequency quality 	Primary CCPCH RSCP
estimate	
- Inter-frequency reporting quantity	EALOE
- UTRA Carrier RSSI	FALSE
- Frequency quality estimate	FALSE This parameters is not used in this release and should be
	This parameters is not used in this release and should be set to FALSE. It shall be ignored by the UE.
- Non frequency related cell reporting quantities	Set to I ALOL. It shall be ignored by the OE.
- Cell synchronisation information reporting	FALSE
indicator	-
- Cell Identity reporting indicator	FALSE
- CHOICE mode	TDD
 Timeslot ISCP reporting indicator 	FALSE
- Proposed TGSN reporting indicator	FALSE
- Primary CCPCH RSCP reporting indicator	FALSE
- Pathloss reporting indicator	FASLE Not present
 Reporting cell status Measurement validity 	Not present
- Measurement validity - Inter-frequency set update	Not present Not present
- inter-nequency set upuate	(this IE only for FDD)
- CHOICE report criteria	Inter-frequency measurement reporting criteria
3110102 10port 01110110	inter requertey measurement reporting enteria

- Parameters required for each event	
 Inter-frequency event identity 	2b
- Threshold used frequency	-70dBm
	(this IE is MP for event 2b, 2d, or 2f
	Ranges used depend on measurement quantity.
	CPICH Ec/No -240dB
	CPICH/Primary CCPCH RSCP -11525dBm)
- W used frequency	0
' '	(this IE is MP for event 2a, 2b, 2d or 2f
	Real(0, 0.12.0 by step of 0.1))
- Hysteresis	1 dBm
- Time to trigger	5000 ms
- Reporting cell status	Within active set or within virtual active set or of the other
	RAT
- Maximum number of reporting cells	1
- Parameters required for each non-used	
frequency	
- Threshold non used frequency	-70 dBm
	(this IE is MP for event 2a, 2b, 2c or 2e
	Ranges used depend on measurement quantity.
	CPICH Ec/No -240dB
	CPICH/Primary CCPCH RSCP -11525dBm.
	This IE is not needed if the IE "Inter-frequency event
	identity" is set to 2a. However, it is specified to be
	mandatory to align with the ASN.1)
- W non-used frequency	0
, ,	(this IE is MP if 2a, 2b, 2c or 2e
	Real(0, 0.12.0 by step of 0.1))
Physical channel information elements	, , , , , , , , , , , , , , , , , , , ,
DPCH Compressed mode status info	Not Present

Contents of MEASUREMENT CONTROL FAILURE Message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	See the test content

Contents of MEASUREMENT REPORT message: AM intra-frequency measurement (1.28 Mcps TDD)

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Measurement identity	1
Measured Results	
- Intra-frequency measured results	
- Cell measured results	
- Cell Identity	Checked that this IE is present
 Cell synchronisation information 	Checked that this IE is absent
- CHOICE mode	TDD
- Cell parameters Id	Different from the Default setting in TS34.108 clause 6.1 (TDD)
- Proposed TGSN	Checked that this IE is absent
- Primary CCPCH RSCP	Checked that this IE is absent
- Pathloss	Checked that this IE is absent
- Timeslot list	Checked that this IE is absent
Measured results on RACH	Checked that this IE is absent
Additional measured results	Checked that this IE is absent
Event results	
- CHOICE event result	Intra-frequency measurement event results
 Intra-frequency measurement event results 	
- Intra-frequency event identity	lg
- Cell measurement event results	
- CHOICE mode	TDD
- Primary CCPCH info	TOD
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
-TSTD indicator	FALSE Reference clause 6.1.4 Default cottings for call 1/TDD)
- Cell parameters ID - SCTD indicator	Reference clause 6.1.4 Default settings for cell 1(TDD) FALSE

Contents of MEASUREMENT REPORT message: AM (inter-frequency measurement) (1.28 Mcps TDD)

Value/remark	Versio
This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.	
1	
Checked that this IE is absent	
Checked that this IE is absent	
Checked that this IE is absent	
Inter-frequency measurement event results	
2b	
TDD	
טטו	
TDD	1
1	
1	REL-4
	compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. 1 Checked that this IE is absent Checked that this IE is absent Checked that this IE is absent Inter-frequency measurement event results

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

Information Element	Condition	Value/remark	Version
Message Type	A1, A2, A3,		
	A4, A5, A6		
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	
Integrity check info			
- message authentication code		SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from its internal counter.	
Integrity protection mode info		Not Present	
Ciphering mode info		Not Present	
Activation time	A1, A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256	
Activation time	A4, A5, A6	Now	
New U-RNTI		Not Present	
New C-RNTI	A1, A2, A3,	Not Present	
	A4		
New C-RNTI	A5, A6	'1010 1010 1010 1010'	
New DSCH-RNTI	A1, A2, A3,	Not Present	
	A4, A5, A6		
New H-RNTI	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6		
RRC State indicator	A1, A2, A3,	CELL_DCH	
	A4		
RRC State indicator	A5, A6	CELL_FACH	
UTRAN DRX cycle length coefficient	A1, A2, A3,	Not Present	
	A4, A5, A6		
CN information info		Not Present	
URA identity		Not Present	
Downlink counter synchronisation info		Not Present	

Information Element	Condition	Value/remark	Version
Frequency info	A1, A2, A3,		
Chaine made	A4, A5	TDD	
- Choice mode - UARFCN (Nt)		TDD Reference to clause 5.1 Test frequencies	
Frequency info	A6	Not Present	
Maximum allowed UL TX power	7.0	33dBm	
CHOICE channel requirement	A5, A6	Not Present	
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info	
	A4		
Uplink DPCH power control info CHOICE mode		TDD	
- CHOICE Mode - CHOICE TDD option		1.28 Mcps TDD	
- PRXPDPCHdes		-80 Integer(-12058 by step of 1)	
- CHOICE UL OL PC info		Individually Signalled	
- CHOICE TDD option		1.28 Mcps TDD	
- TPC step size		1	
- Primary CCPCH Tx Power		20 Integer(643)	
- CHOICE mode		TDD	
Uplink Timing Advance Control CHOICE Timing Advance		Enabled	
- CHOICE TDD option		1.28 Mcps TDD	
- Uplink synchronisation parameters		3	
 Uplink synchronisation step size 		1	
- Uplink synchronisation frequency		1	
- Synchronisation parameters		04040404	
- SYNC_UL codes bitmap - FPACH info		01010101	
- Timeslot number		0	
- Channelisation code		16/15	
 Midamble Shift and burst type 			
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble Allocation Mode		Default midamble	
- Midamble configuration - WT		16 Integer(2, 4, 6, 8, 10, 12, 14, 16) 4 Integer(14)	
- WT - PRXUpPCHdes		-80 dBm	
- SYNC_UL procedure		00 45	
- Max SYNC_UL Transmissions		2	
- Power Ramp Step		2	
- UL CCTrCH List			
- TFCS ID - UL Target SIR		Real (-11 20 by step of 0.5dB)	
- OL Target Silk		Reference to TS34.108 Parameter set.	
- Time info		Troid of the Troid Training of Sec.	
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration		Infinite	
- Common timeslot info		D ()()	
- 2 nd interleaving mode - TFCI coding		Default value is "Frame" Reference to TS34.108 clause 6 Parameter	
- IT Of County		set	
- Puncturing limit		Reference to TS34.108 clause 6 Parameter	
		set	
- Repetition period		1 North	
- Repetition length		Null	
Uplink DPCH timeslots and code Dynamic SF usage		FALSE	
- First individual timeslot info		INLOC	
- Timeslot number			
- CHOICE TDD option		1.28 Mcps TDD	
- Timeslot number		1 OR 2 OR 3	
- TFCI existence		TRUE	
Midamble shift and burst type CHOICE TDD option		1 28 Mons TDD	
- Midamble allocation mode		1.28 Mcps TDD Default midamble	
- Midamble configuration		16	
- Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	

Information Element	Condition	Value/remark	Version
- SS-TPC Symbols		1	
- Additional TPC-SS Symbols		Not present	
- First timeslot Code List		Repeated (1,2) for each channelisation code	
That timeslot odde List		assigned in the slot to meet the	
		assigned in the slot to meet the	
		needs of TS34.108 clause 6	
		Parameter Set.	
 channelisation codes 		(SF/ i) where i denotes an unassigned code	
		matching the SF specified in	
		TS34.108 clause 6 Parameter Set.	
- CHOICE more timeslots		No more timeslots	
- UL CCTrCH List to Remove			
		Not present	
CHOICE Mode	A1, A2, A3,	TDD	
	A4, A5, A6		
Downlink HS-PDSCH Information	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6		
Downlink information common for all radio links	A1, A2, A3		
- Downlink DPCH info common for all RL	A1, A2, A3		
- Timing indication		Maintain	
- CFN-targetSFN frame offset		Not Present	
 Downlink DPCH power control information 			
- CHOICE mode		TDD	
- TPC Step Size		1	
- MAC-d HFN initial value		Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value		Not Present	
Downlink information common for all radio links	A4		
- Downlink DPCH info common for all RL	[' ' '		
		Initialise	
- Timing indication			
- CFN-targetSFN frame offset		Not Present	
 Downlink DPCH power control information 			
- CHOICE mode		TDD	
- TPC Step Size		1	
- MAC-d HFN initial value		Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value			
- CHOICE mode		TDD	
- Default DPCH Offset Value		0 Integer(07)	
Downlink information common for all radio links	A5, A6	Not Present	
Downlink information per radio link list	A1, A2,A3		
- Downlink information for each radio link	711,712,710		
- Choice mode		TDD	
		טטו	
- Primary CCPCH info			
- Choice mode		TDD	
- Choice TDD Option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Cell parameters ID		Ref. to the Default setting in TS34.108 clause	
- Cell parameters 1D			
CCTD indicates		6.1 (TDD) Integer(0127)	
- SCTD indicator		FALSE	
- Downlink DPCH info for each RL			
- CHOICE mode		TDD	
- DL CCTrCh List			
- TFCS ID		2 Integer(1.8)	
- Time info			
		Now	
- Activation time		-	
- Duration		Infinite	
- Common timeslot info			
- 2nd interleaving mode		Default value is "Frame"	
- TFCI coding		Reference to TS34.108 clause 6 Parameter	
5. 5549		set	
- Puncturing limit		Reference to TS34.108 clause 6 Parameter	
i dilotaling lillit			
		set	1

Information Element	Condition	Value/remark	Version
- Repetition period		1	
- Repetition length		NULL	
 Downlink DPCH timeslots and codes 			
 First individual timeslot info 			
- Timeslot number			
 CHOICE TDD option 		1.28 Mcps TDD	
- Timeslot number		4 OR 5 OR 6	
- TFCI existence		TRUE	
 Midamble shift and burst type 			
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble allocation mode		Default midamble	
 Midamble configuration 		16	
- Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
- Additional TPC-SS Sysbols		Not present	
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code	
That timesiot enaimensation codes		assigned in the slot to meet the	
		needs of TS34.108 clause 6	
		Parameter Set.	
CHOICE and a representation		Parameter Set.	
 CHOICE codes representation Channelisation codes bitmap 		Reference to TS34.108 clause 6.11	
- Channelisation codes bitmap		Parameter Set	
		No more timeslots	
- CHOICE more timeslots			
- UL CCTrCH TPC List		This list is not required for 1.28 Mcps TDD	
III TOO TEOO Idaasiis		and is to be ignored by the UE.	
- UL TPC TFCS Identity			
- TFCS ID		1	
- Shared Channel Indicator		FALSE	
- DL CCTrCH List to Remove		Not present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A4		
- Downlink information for each radio link			
- Choice mode		TDD	
- Primary CCPCH info			
- Choice mode		TDD	
- Choice TDD Option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Cell parameters ID		Ref. to the Default setting in TS34.108 clause	
		6.1 (TDD) Integer(0127)	
- SCTD indicator		FALSE	
 Downlink DPCH info for each RL 			
- CHOICE mode		TDD	
- DL CCTrCh List		Not Present	
 DL CCTrCH List to Remove 		Not present	
 SCCPCH Information for FACH 		Not Present	
Downlink information per radio link list	A5		
 Downlink information for each radio link 			
- Choice mode		TDD	
- Primary CCPCH info			
- Choice mode		TDD	
- Choice TDD Option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Cell parameters ID		Ref. to the Default setting in TS34.108 clause	
		6.1 (TDD) Integer(0127)	
- SCTD indicator		FALSE	
- Downlink DPCH info for each RL		Not Present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A6	Not Present	
20 million morniadon por radio illio list	1 / 10	1 110.1 100011	l

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	5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	3	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	Checked to see if it's set to identical value of the same	
	IE in the downlink PHYSICAL CHANNEL	
	RECONFIGURATION message	
Integrity check info		
 Message authentication code 	This IE is checked to see if it is present. The value is	
	compared against the XMAC-I value computed by SS.	
	The first/ leftmost bit of the bit string contains the most	
	significant bit of the MAC-I.	
 RRC Message sequence number 	This IE is checked to see if it is present. The value is	
	used by SS to compute the XMAC-I value.	
Uplink integrity protection activation info	Not checked	
CHOICE mode	TDD	
CHOICE TDD option	1.28 Mcps TDD	REL-4
COUNT-C activation time	Not checked	
Radio bearer uplink ciphering activation time info	Not checked	
Uplink counter synchronisation info	Not checked	

Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.
Integrity check info	·
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most
- RRC Message sequence number	significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement

Contents of RADIO BEARER RECONFIGURATION message: AM or UM (1.28 Mcps TDD)

Information Element	Condition	Value/remark	Version
Message Type	A1,A2,A3, A4,A5,A6		
UE Information elements			
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3	
Integrity check info			
- message authentication code		SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from its internal counter.	
Integrity protection mode info		Not Present	
Ciphering mode info		Not Present	
Activation time	A1,A2,A3	(256+CFN-(CFN MOD 8 + 8))MOD 256	
Activation time	A4, A5,A6	Not Present	
		MD Integer(0255) default is "now'	
New U-RNTI		Not Present	
New C-RNTI	A1, A2, A3,	Not Present	

Information Element	Condition	Value/remark	Version
	A4,		
New C-RNTI	A5, A6	'1010 1010 1010 1010'	
New DSCH-RNTI	A1, A2, A3,	Not Present	
	A4, A5, A6		
New H-RNTI	A1, A2, A3,	Not Present	REL-5
	A4, A5, A6		
RRC State indicator	A1, A2, A3,	CELL_DCH	
	A4	Indicates to a UE the RRC state to be	
		entered.	
RRC State indicator	A5, A6	CELL_FACH	
UTRAN DRX cycle length coefficient	A1,A2,A3,	Not Present	
., <u>.</u>	A4,A5,A6	A coefficient in the formula to count the	
	111,112,112	paging occasions to be used by a	
		specific UE	
CN information elements			
CN information info		Not Present	
UTRAN mobility information elements			
URA identity		Not Present	
CHOICE specification mode		[FFS]	REL-5
RB information elements		[]	
RAB information to reconfigure list		Not Present	
RB information to reconfigure list	A1	TS25.331 specifies that "Although this	
1.2 information to rotoringulo list	/\'	IE is not always required, need is MP to	
		align with ASN.1".	
- RB information to reconfigure		(UM DCCH for RRC)	
- RB identity		1	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for RRC)	
- RB identity		2	
- PDCP info		Not Present	
- PDCP IIII0 - PDCP SN info		Not Present	
- RLC info		Not Present	
		Not Present	
RB mapping infoRB stop/continue		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		(IM DICH) 10	
- 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 list	A2	TS25.331 specifies that "Although this	
The information to reconligure list	A2	IE is not always required, need is MP to	
		align with ASN.1".	
DP information to reconfigure			
- RB information to reconfigure		(UM DCCH for RRC)	
- RB identity		Not Droom	
- PDCP info	İ	Not Present	1
		Not Decemb	
- PDCP SN info - RLC info		Not Present Not Present	

Information Element	Condition	Value/remark	Version
- 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 Not Present	
- RB stop/continue - RB information to reconfigure			
- RB information to reconligure - RB identity		(AM DCCH for NAS_DT High priority)	
- 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 Not Present	
- PDCP info - PDCP SN info		Not Present Not Present	
- PDCP SN INTO - RLC info		Not Present Not Present	
- REC INIO - RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(TM DTCH)	
1.2 information to rootinguro		(This IE is needed for 12.2 kbps and	
		10.2 kbps)	
- RB identity		12	
- 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	
_	A6	IE is not always required, need is MP to	
		align with ASN.1".	
- RB information to reconfigure		(UM DCCH for RRC)	
- RB identity		1	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for RRC)	
- RB identity		2	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)	
- RB identity - PDCP info		Not Present	
- PDCP IIII0 - PDCP SN info		Not Present	
I DOI OIVIIIIO	I	Not i leacht	Į

Information Element	Condition	Value/remark	Version
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB information to reconfigure		(AM DCCH for NAS_DT Low priority)	
- RB identity		4	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
- RB stop/continue - RB information to reconfigure			
		(AM DTCH)	
- RB identity		20 Not Procent	
- PDCP info		Not Present	
- PDCP SN info		Not Present	
- RLC info		Not Present	
- RB mapping info		Not Present	
- RB stop/continue		Not Present	
RB information to be affected	A1, A2,	Not Present	
	A3,A4,A5,		
TOUL (STORY)	A6		
TrCH Information Elements			
Uplink transport channels			
UL Transport channel information for all transport	A1, A2,	Not Present	
channels	A5,A6		
	·		
UL Transport channel information for all transport	A3, A4		
channels			
- PRACH TFCS		Not Present	
- CHOICE mode		TDD	
- Individual UL CCTrCH information			
- UL TFCS Identity			
- TFCS ID		1	
 Shared Channel Indicator 		FALSE	
- UL TFCS			
- CHOICE TFCI signalling		Normal	
		(another option 'split' only for FDD)	
- TFCI Field 1 Information			
- CHOICE TFCS representation		Complete reconfiguration	
- TFCS complete reconfiguration		Complete recorning a ration	
information			
- CHOICE CTFC Size		Number of hits used must be enough to	
- CHOICE CIPC Size		Number of bits used must be enough to cover all combinations of CTFC from	
		TS34.108 clause 6.11.5.4 Parameter	
OTEO information		Set.	
- CTFC information		This IE is repeated for TFC numbers	
		and reference to TS34.108 clause	
OTEC		6.11.5.4 Parameter Set	
- CTFC		Reference to TS34.108 clause 6.11.5.4	
		Parameter Set	
- Power offset information			
- CHOICE Gain Factors		Computed Gain Factors	
		(The last TFC is set to Signalled Gain	
		Factors)	
- Reference TFC ID		0 Integer(0 3)	
- CHOICE Gain Factors		Signalled Gain Factors	
		(Not Present if the CHOICE Gain	
		Factors is set to ComputedGain	
		Factors)	
- CHOICE mode		TDD	
- Gain Factor eta_d		15	
- Reference TFC ID		0 Integer(0 3)	
- CHOICE mode		TDD	
- TFC subset			
- CHOICE Subset representation	1	Minimum allowed Transport format	
C. TOTOL GUDGOT TOPTOGOTILUTION			İ.

Information Element	Condition	Value/remark	Version
		combination index	
- Allowed transport format combination list		Not present	
- Non-allowed transport format combination list		Not present	
- Non-allowed transport format combination list		Not present	
- Full transport format combination set		Not present	
- TFC subset list		Not present	
Deleted TrCH information list		Not present	
Deleted UL TrCH information	A1, A2, A3,	Not Present	
	A4, A5,A6	Not i resent	
Added or Reconfigured TrCH information list	14.40	N (D)	
Added or Reconfigured UL TrCH information	A1, A2, A5,A6	Not Present	
Added or Reconfigured UL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)	
 Uplink transport channel type 		DCH	
- UL Transport channel identity - TFS		5	
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		Defendance to TOO 4 400 1	
- RLC Size		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11.5 Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11.5 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Uplink transport channel type		DCH	1
- UL Transport channel identity		1	
- TFS - CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		·	
- RLC Size		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11.5 Parameter Set	
- CHOICE Logical Channel list		All	1
- Semi-static Transport Format information			1
- Transmission time interval		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11.5 Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11.5 Parameter Set	
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)	
- Uplink transport channel type		DCH	1
- UL Transport channel identity- TFS		1	

Information Florent	Condition	Value/rements	Varaian
Information Element	Condition	Value/remark	Version
- CHOICE Transport channel type - Dynamic Transport format information		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.11.5	
- INEO OIZE		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11.5	
-		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11.5	
ODC size		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11.5	
CHOICE mode	A4 A0 A0	Parameter Set	
CHOICE Mode	A1,A2,A3,	TDD	
- (no data)	A4,A5,A6		
Downlink transport channels	1		+
DL Transport channel information common for all	A1, A2, A5,	Not Present	+
transport channel	A6	Not resent	
DL Transport channel information common for all	A3,A4		
transport channel	7.0,711		
- SCCPCH TFCS		Not Present	
- CHOICE mode		TDD	
- Individual DL CCTrCH information			
- DL TFCS Identity			
- TFCS ID			
- Shared Channel Indicator			
- CHOICE DL parameters		Independent	
- DL TFCS			
 CHOICE TFCI signalling 		Normal	
		(Normal' : meaning no split in the TFCI	
- TFCI Field 1 Information		field either 'Logical' or 'Hard')	
- CHOICE TFCS representation		Complete reconfiguration	
- TFCS complete reconfiguration		Complete reconliguration	+
information			
- CHOICE CTFC Size		Number of bits used must be enough to	
3.10102 011 0 0120		cover all combinations of CTFC from	
		clause TS34.108 clause 6.11.5.4	
		Parameter Set.	
- CTFC information		This IE is repeated for TFC numbers	
		and reference to TS34.108 clause	
		6.11.5.4	
- CTFC		Reference to TS34.108 clause 6.11.5.4	
		Parameter Set	
- Power offset		Not Present	
information	-		+
Deleted TrCH information list	A4 A0 A0	Not Propert	1
Deleted DL TrCH information	A1, A2, A3,	Not Present	
Added or Reconfigured TrCH information list	A4, A5,A6		+
Added or Reconfigured DL TrCH information Added or Reconfigured DL TrCH information	A1, A2, A5,	Not Present	+
Added of Neconinguled DE HOLLINIOHIIANOH	A1, A2, A3, A6	Not i leadif	
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for	+
/ Adda of Notoningarea DE Horrimonnation	' \¬	DTCH)	
- Downlink transport channel type		DCH	
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	

Information Element	Condition	Value/remark	Version
- DCH quality target			
- BLER Quality value		Not Present	
 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		Deference to T004 400 eleves 0 44 5	
- RLC Size		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Dynamic transport format information		(This is repeated for 11 Thumber.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11.5	
'		Parameter Set	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11.5	
Data matching attellines		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11.5	
- CRC size		Parameter Set Reference to TS34.108 clause 6.11.5	
- CRC SIZE		Parameter Set	
- DCH quality target		i arameter Set	
- BLER Quality value		-2.0	
Added or Reconfigured DL TrCH information	A3	2.0	
- 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		D (T004400	
- RLC Size		Reference to TS34.108 clause 6.11.5 Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TFI number.)	
- Dynamic transport format information		(This is repeated for 11 Thumber.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11.5	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11.5	
On the se Date		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11.5	
- Rate matching attribute		Parameter Set Reference to TS34.108 clause 6.11.5	
- Ivale maloning allibule		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11.5	
0110 0120		Parameter Set	
- DCH quality target			
- BLER Quality value		-2.0	
Preconfiguration	A1,A2,A3,	[FFS]	REL-5
	A4,A5,A6		
PhyCH information elements			
Frequency info	A1,A2,A3,		
CHOICE made	A4,A5	TDD	
- CHOICE mode		TDD Reference to clause 5.1 Test	
- UARFCN (Nt)		frequencies	
Frequency info	A6	Not Present	
Uplink radio resources	/.0	1.5ct room	
Maximum allowed UL TX power	A1,A2,A3,	33dBm	
The state of the s	A4,A5,A6		
	, ,	I .	1

Information Element	Condition	Value/remark	Version
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info	Version
OHOIOE charme requirement	A1, A2, A3,	Opinik bi Orrinio	
-Uplink DPCH power control info	/ -		
Spining St. Parist Salmaning			
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	RE
' '		1	
- PRX _{PDPCHdes}		Integer(-12058 by step of 1)	
- CHOICE UL OL PC info		,	
- Broadcast UL OL PC info		Null	
- CHOICE mode		TDD	
- Uplink Timing Advance Control			
- CHOICE Timing Advance		Enabled	
- CHOICE TDD option		1.28 Mcps TDD	
- Uplink synchronisation			
parameters			
- Uplink synchronisation step		1	
size			<u> </u>
- Uplink synchronisation		1	
frequency			
- Synchronisation parameters		Not Present	
- UL CCTrCH List			
- TFCS ID		1	
- UL Target SIR		Real (-11 20 by step of 0.5dB)	
		Reference to TS34.108 Parameter set.	
- Time info			
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration		infinite	
- Common timeslot info			
- 2 nd interleaving mode		Default value is "Frame"	
- TFCI coding		Reference to TS34.108 clause 6	
		Parameter set	
- Puncturing limit		Reference to TS34.108 clause 6	
Denotition period		Parameter set	
- Repetition period		1 ampty	
- Repetition length		empty	
- Uplink DPCH timeslots and code		FALOE	
- Dynamic SF usage		FALSE	
- First individual timeslot info			
- Timeslot number		4 20 Mars TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- Timeslot number		1	
- TFCI existence		TRUE	
- Midamble shift and burst type		1 00 14 70 7	
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble allocation mode		Default midamble	
- Midamble configuration		16	
- Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
- Additional TPC-SS Sysbols		Not present	
- First timeslot Code List		Repeated (1,2) for each channelisation	
		code assigned in the slot to	
		meet the needs of TS34.108	
ale annualization and		clause 6 Parameter Set.	
- channelisation codes		(SF/ i) where i denotes an unassigned	
		code matching the SF specified in TS34.108 clause 6	
		Parameter Set.	
- CHOICE more timeslots		No more timeslots	
	1		1

Information Element	Condition	Value/remark	Version
- UL CCTrCH List to Remove		Not present	
CHOICE channel requirement	A5, A6	Not Present	
Downlink radio resources			
CHOICE Mode	A1,A2,A3, A4,A5,A6	TDD	
- Downlink PDSCH information		No date	
Downlink HS-PDSCH Information	A1, A2, A3, A4, A5, A6	Not Present	REL-5
Downlink information common for all radio links	A5, A6	Not Present	
Downlink information common for all radio links - Downlink DPCH info common for all RL	A1, A2, A3		
- Timing indicaton		Maintain	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control information		TDD	
- CHOICE <i>mode</i> - TPC Step Size		TDD 1	
- MAC-d HFN initial value		Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value		Not Present	
Downlink information common for all radio links	A4		
- Downlink DPCH info common for all RL			
- Timing indication		Initialise	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control information		TDD	
- CHOICE mode		TDD	
- TPC Step Size - MAC-d HFN initial value		1 Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value			
- CHOICE mode		TDD	
- Default DPCH Offset Value		0	
Downlink information per radio link list	A1, A2, A3, A4		
- Downlink information for each radio link			
- Choice mode		TDD	
- Primary CCPCH info		TDD	
- Choice mode		TDD	
 Choice TDD Option TSTD indicator 		1.28 Mcps TDD FALSE	
- Cell parameters ID		Reference clause 6.1.4 Default settings	
Con paramotoro ib		for cell 1	
- SCTD indicator		FALSE	
- Downlink DPCH info for each RL			
- CHOICE mode		TDD	
- DL CCTrCh List			
- TFCS ID	Integer(1.8	Identity of this CCTrCh.Default value is	
Time a limb-)	1	
- Time info - Activation time		Now	
- Activation time - Duration		Infinite	
- Common timeslot info		i i i i i i i i	
- 2 nd interleaving mode		Default value is "Frame"	
- TFCI coding		Reference to TS34.108 clause 6	
- Puncturing limit		Parameter set Reference to TS34.108 clause 6	
Donatities seried		Parameter set	
- Repetition period		1	
- Repetition length		empty	
Downlink DPCH timeslots and codes First individual timeslot info			
- riisi inaividuai timesiot into			1

Information Element	Condition	Value/remark	Version
- Timeslot number			
- CHOICE TDD option		1.28 Mcps TDD	
- Timeslot number		4 OR 5 OR 6	
- TFCI existence		TRUE	
 Midamble shift and burst type 			
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble allocation mode		Default midamble	
- Midamble configuration		16	
- Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
- Additional TPC-SS Sysbols		Not present	
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.	
- CHOICE codes representation			
- Channelisation codes bitmap		Reference to TS34.108 clause 6.10 Parameter Set	
- CHOICE more timeslots		No more timeslots	
- UL CCTrCH TPC List		This list is not required for 1.28 Mcps TDD and is to be ignored by the UE.	
- UL TPC TFCS Identity		02.	
- TFCS ID		1	
- Shared Channel Indicator		FALSE	
- DL CCTrCH List to Remove		Not present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A5		
- Downlink information for each radio link			
- Choice mode		TDD	
- Primary CCPCH info		TOD	
- Choice mode - Choice TDD Option		TDD 1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Cell parameters ID		Reference clause 6.1.4 Default settings for cell 1	
- SCTD indicator		FALSE	
- Downlink DPCH info for each RL		Not Present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A6		
- Downlink information for each radio link		Not Present	

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM (1.28 Mcps TDD)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION message	
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value	

- RRC Message sequence number	computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.		
Uplink integrity protection activation info	Not checked		
CHOICE mode	TDD		
- CHOICE TDD option	1.28 Mcps TDD (No data)	REL-4	
COUNT-C activation time	Not checked		
Radio bearer uplink ciphering activation time info	Not checked		
Uplink counter synchronisation info	Not checked		

Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement
Radio bearers for which reconfiguration would have succeeded List	Not checked

Contents of RADIO BEARER RELEASE message: AM or UM (1.28 Mcps TDD)

Information Element		Value/remark
Message Type	A1, A2,	
	A3, A4,	
	A5, A6,	
	A7, A8	
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		
- message authentication code		SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC message sequence number		SS provides the value of this IE, from its internal counter.
Integrity protection mode info		Not Present
Ciphering mode info		Not Present
Activation time	A1, A2,	(256+CFN-(CFN MOD 8 + 8))MOD 256
	A3, A7, A8	
Activation time	A4, A5, A6	Not Present
New U-RNTI		Not Present
New C-RNTI	A1,A2,A3,	Not Present
	A4	
New C-RNTI	A5, A6,	'1010 1010 1010 1010'
	A7, A8	
New DSCH-RNTI	A1, A2,	Not Present
	A3, A4,	
	A5, A6,	
	A7, A8	
RRC State indicator	A1,A2, A3,	CELL DCH
	A4	
RRC State indicator	A5, A6,	CELL_FACH
	A7, A8	

UTRAN DRX cycle length coefficient A1,A2,A3, A,A5,A6, A7,A8 Not Present Not Pr	Information Element		Value/remark
CN information into Signalling Connection release indication URA identity RAB information to reconfigure list RB information to release list RB information to release list RB information to release list RB information to release list RB information to release RB information RB information release RB information RB information release RB information release RB information release RB information release RB information RB infor		A1,A2.A3.	
CN information info Not Present Not Pr		A4,A5,A6,	
Signalling Connection release indication URA identity RAB information to release list RB information to release list RB information to release list RB information to release list RB information to release list RB information to release list RB information to release list RB information to release RB identity RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to release RB information to be affected list A3, A4, A5, A6 RB information to be affected list A3, A4, A5, A6 RB information to be affected list A3, A4, A5, A6, A7, A8 Downlink counter synchronisation info A3, A2, A3, A4, A5, A6, A7, A8 Downlink counter synchronisation info A3, A2, A3, A4, A5, A6, A7, A8 Downlink counter synchronisation info A3, A3, A4, A5, A6, A7, A8 Downlink counter synchronisation info A3, A3, A4, A5, A6, A7, A8 Downlink counter synchronisation info A3, A3, A4, A5, A6, A7, A8 Downlink counter synchronisation info A3, A3, A4, A5, A6, A7, A8 Downlink counter synchronisation information common for all transport channel information common for all transport A3, A4, A5, A6, A7, A8 Deleted Tich information ist A3, A3, A4, A5, A7, A8 Deleted UI. Tich Information RB A1, A2, A3, A4, A5, A7, A8 Deleted UI. Tich Information RB A1, A2, A3, A4, A5, A7, A8 Deleted UI. Tich Information RB A1, A2, A3, A4, A5, A7, A8 Downlink transport channel type Transport channel identity B1 Deleted UI. Tich Information RB A1, A2, A3, A4, A4, A5, A7, A8 Downlink transport channel type RB A1, A2, A3, A4, A4, A5, A6, A7, A8 Downlink transport channel type Downlink transport channel identity RB A1, A2, A3, A4, A4, A5, A6, A7, A8, A7,	CN information info	7.1.,7.10	Not Present
URA identity RB information to reconfigure list RB information to release list RB information to release list RB information to release list RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to be affected list A3, A4, A5, A6 RB information to be affected list A1, A2, A3, A4, A5, A6, A7, A8 Downlink counter synchronisation info A1, A2, A3, A4, A5, A6, A7, A8 UL Transport channel information common for all transport channels UL Transport channel information common for all transport channels UL Transport channel information common for all transport channels Deleted TCH information ist A1, A2, A3, A5, A7, A8 Deleted TCH information - Uplink transport channel type - Transport channel identity Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity Deleted UL TrCH information - Uplink transport channel type - Transport channel identity Deleted UL TrCH information - Uplink transport channel identity Deleted UL TrCH information - Uplink transport channel identity Deleted UL TrCH information - Uplink transport channel type - Transport channel identity Deleted UL TrCH information - Uplink transport channel type - Transport channel identity Deleted UL TrCH information - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity	Signalling Connection release indication		
RAB information to release Isls			Not Present
RB information to release RB identity 10 10 10 10 10 10 10 1			Not Present
RB information to release list RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - 11 - 12 - 12 - RB information to release - RB identity - 12 - RB information to release - RB identity - 12 - RB information to release - RB identity - 20 - RB information to be affected list - A3, A4, - A5, A6 - A7, A8 - A6, A7, A8 - A6, A7, A8 - A7, A8 - A6, A7, A8 - A7, A8 - A7, A8 - Deleted TrCH information common for all transport - A5, A6, A7, A8 - Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity - Deleted UL TrCH Information - Uplink transport channel identity - Deleted UL TrCH information - Uplink transport channel identity - Deleted UL TrCH information - Uplink transport channel identity - Deleted UL TrCH information - Uplink transport channel identity - Deleted TrCH information - Uplink transport channel identity - Deleted TrCH information - Uplink transport channel identity - Transport channel identity - Deleted TrCH information - Uplink transport channel identity - Deleted TrCH information - Uplink transport channel identity - Deleted TrCH information list - A6ded or Reconfigured TrCH information - Uplink transport channel identity - Deleted TrCH information list - A7, A8 - A8 - A8 - A8 - A8 - A8 - A9 - A8 - BCH - Transport channel identity - CHOICE Transport Channel identity - TrANSPORT Channel i	RB information to release list	A1, A7	
RB information to release list RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release - RB identity RB information to release list RB information to release sets - RB identity RB information to release list - RB information to release - RB identity - RB information to release - RB identity - RB information to be affected list - RB information to be affected list - RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - RB information to release - RB identity - A3, A4, A5, A6, - A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - A8, A7, A8 - Channel configuration Uplink transport channel type - Transport channel identity - Deleted UL TrCH information - Uplink transport channel identity - Deleted UL TrCH information - Uplink transport channel identity - Deleted UL TrCH information list - A4, A6 - A7, A8 - A8 - A7, A8 - A8 - A8 - A8 - A8 - A8 - A8 - A8 -			
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- Uplink transport channel type - Transport channel identity Deleted TrCH information list Added or Reconfigured TrCH information list Added or Reconfigured TrCH information list Added or Reconfigured TrCH information list A1, A2, A3, A4 Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size Reference to TS34.108 clause 6.11 Parameter Set - Number of TBs and TTI List - Number of Transport blocks - CHOICE Logical Channel list - CHOICE Logical Channel list - Transmission time interval - Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Transmission time interval Reference to TS34.108 clause 6.11 Parameter Set - All (NULL) - Semi-static Transport Format information - Transmission time interval - Reference to TS34.108 clause 6.11			2
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Deleted TrCH information list Added or Reconfigured TrCH information list Added or Reconfigured TrCH information list Added or Reconfigured TrCH information list A1, A2, A3, A4 Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dedicated transport channels - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - CHOICE Logical Channel list - Transmission time interval - Transmission time interval - Transmission time interval - Transmission time interval - Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Transmission time interval - Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Transmission time interval - Reference to TS34.108 clause 6.11			
Added or Reconfigured TrCH information list A5, A6, A7, A8 Added or Reconfigured TrCH information list A1, A2, A3, A4 Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - 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 - CHOICE Logical Channel list - CHOICE Logical Channel list - Transmission time interval - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11			
A7, A8 Added or Reconfigured TrCH information list A1, A2, A3, A4 Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dedicated transport channels - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - CHOICE Logical Channel list - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11			
Added or Reconfigured TrCH information list A1, A2, A3, A4 Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dedicated transport channels - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Reference to TS34.108 clause 6.11 Parameter Set All (NULL) Reference to TS34.108 clause 6.11 Reference to TS34.108 clause 6.11	Added or Reconfigured Truth Information list		NOT Present
A3, A4 Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dedicated transport channels - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Reference to TS34.108 clause 6.11 Parameter Set All (NULL) Reference to TS34.108 clause 6.11	Added or Reconfigured TrCH information list		TrCHs (DCH for DCCH)
- Uplink transport channel type - UL Transport channel identity - TFS - 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 - CHOICE Logical Channel list - Transmission time interval - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11 - Reference to TS34.108 clause 6.11	-		TIOTIS (DOLLIO)
- UL Transport channel identity - TFS - 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 - Reference to TS34.108 clause 6.11 Reference to TS34.108 clause 6.11 Parameter Set - All (NULL) Reference to TS34.108 clause 6.11			DCH
- TFS - 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 - Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Reference to TS34.108 clause 6.11 Reference to TS34.108 clause 6.11			
- 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 - Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Reference to TS34.108 clause 6.11 Reference to TS34.108 clause 6.11			J
- Dynamic Transport format information - RLC Size Reference to TS34.108 clause 6.11 Parameter Set - Number of TBs and TTI List (This IE is repeated for TFI number.) - Transmission Time Interval Not present - Number of Transport blocks Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6.11			Dedicated transport channels
- RLC Size Reference to TS34.108 clause 6.11 Parameter Set - Number of TBs and TTI List (This IE is repeated for TFI number.) - Transmission Time Interval Not present - Number of Transport blocks Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6.11			Dodioated transport originies
- Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval (This IE is repeated for TFI number.) Not present Reference to TS34.108 clause 6.11 Parameter Set All (NULL) Reference to TS34.108 clause 6.11	- RLC Size		
- Transmission Time Interval - Number of Transport blocks Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Not present Reference to TS34.108 clause 6.11	- Number of TBs and TTLList		
- Number of Transport blocks Reference to TS34.108 clause 6.11 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6.11			
- CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval All (NULL) Reference to TS34.108 clause 6.11			Reference to TS34.108 clause 6.11
- Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6.11	- CHOICE Logical Channel list		
- Transmission time interval Reference to TS34.108 clause 6.11			,··/
			Reference to TS34.108 clause 6.11 Parameter Set
- Type of channel coding Reference to TS34.108 clause 6.11 Parameter Set	- Type of channel coding		Reference to TS34.108 clause 6.11

Information Element		Value/remark
- Coding Rate		Reference to TS34.108 clause 6.11
Journa Nate		Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.11 Parameter Set
- CRC size		Reference to TS34.108 clause 6.11 Parameter Set
CHOICE mode		TDD (No data)
DL Transport channel information common for all transport	A1, A2,	TFCS reconfigured to fit the new transport
channels	A3, A4,	channel configuration.
DL Transport channel information common for all transport	A5, A6,	Not Present
channels	A7, A8	
Deleted TrCH information list		
- Deleted DL TrCH Information	A1, A2, A3, A5,A7, A8	
- Downlink transport channel type		DCH
- Transport channel identity	10.10	6
- Deleted DL TrCH Information	A2, A8	PCH
- Downlink transport channel type		DCH 7
- Transport channel identity - Deleted DL TrCH Information	A2, A8	<i>I</i>
- Downlink transport channel type	72, 70	DCH
- Transport channel identity		8
Deleted TrCH information list	A4, A6	Not Present
Added or Reconfigured TrCH information list	, -	
- Added or Reconfigured DL TrCH information	A5, A6,	Not Present
G	A7, A8	
- 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		0.0 Daal/ 0.0 O burston at 0.4)
- BLER Quality value Frequency info	A4 A2	-2.0 Real(-6.30 by step of 0.1)
Frequency inio	A1, A2, A3, A4, A5, A7, A8	
- Choice mode		TDD
- UARFCN (Nt)	4.0	Reference to clause 5.1 Test frequencies
Frequency info	A6	Not Present
Maximum allowed UL TX power	A1, A2, A3, A4, A7, A8	33dBm
Maximum allowed UL TX power	A5, A6	using the default value
CHOICE channel requirement	A5, A6 ,	Not Present
	A7, A8	
CHOICE channel requirement	A1, A2, A3, A4	Uplink DPCH info
- Uplink DPCH power control info		Not Present
- CHOICE mode		TDD
- Uplink Timing Advance Control		Not Present
- UL CCTrCH List		
- TFCS ID		1
- UL Target SIR		Real (-11 20 by step of 0.5dB) Reference to TS34.108 Parameter set.
- Time info		
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration		Infinite
- Common timeslot info		
- 2 nd interleaving mode		Default value is "Frame"
- TFCI coding		Reference to TS34.108 clause 6 Parameter
		set
- Puncturing limit		Reference to TS34.108 clause 6 Parameter

Information Element		Value/remark
		set
- Repetition period		1
- Repetition length		
- Uplink DPCH timeslots and code		
- Dynamic SF usage		FALSE
- First individual timeslot info		
- Timeslot number		
- CHOICE TDD option		1.28 Mcps TDD
- Timeslot number		1 OR 2 OR 3
- TFCI existence		TRUE
- Midamble shift and burst type		
- CHOICE TDD option		1.28 Mcps TDD
- Midamble allocation mode		Default midamble
- Midamble configuration		16
- Midamble Shift		Not Present
- CHOICE TDD option		1.28 Mcps TDD
- Modulation		QPSK
- SS-TPC Symbols		1
- Additional TPC-SS Symbols		Not present
- First timeslot Code List		Repeated (1,2) for each channelisation
		code assigned in the slot to meet
		the needs of TS34.108 clause 6
- channelisation codes		Parameter Set.
- Charmensation codes		(SF/ i) where i denotes an unassigned code matching the SF specified in
		TS34.108 clause 6 Parameter Set.
- CHOICE more timeslots		No more timeslots
- UL CCTrCH List to Remove		Not present
CHOICE Mode	A1, A2,	TDD
	A3, A4,	
	A5, A6,	
	A7, A8	
Downlink HS-PDSCH Information	A1, A2,	Not Present
	A3, A4,	
	A5, A6, A7, A8	
Downlink information common for all radio links	A5, A6,	Not Present
Downlink information common for all radio links	A7, A8	THOSE THOSE IN
Downlink information common for all radio links	A1, A2, A3	
- Downlink DPCH info common for all RL		
- Timing indication		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		TDD
- CHOICE mode - TPC Step Size		TDD 1
- MAC-d HFN initial value		Not Present
- CHOICE mode		TDD
- CHOICE mode		TDD
- CHOICE TDD option		1.28 Mcps TDD
- TSTD indicator		FALSE
- Default DPCH Offset Value	1	Not Present
Downlink information common for all radio links	A4	
- Downlink DPCH info common for all RL		Initialise
- Timing indication - CFN-targetSFN frame offset	1	Initialise Not Present
- Downlink DPCH power control information	1	THOUT TESETIL
- CHOICE mode	1	TDD
- TPC Step Size		1
- MAC-d HFN initial value	1	Not Present
- CHOICE mode	1	TDD
- CHOICE mode	1	TDD
- CHOICE TDD option		1.28 Mcps TDD
- TSTD indicator	1	FALSE
- Default DPCH Offset Value - CHOICE mode	1	TDD
- OHOIGE HIOUE	I	טטו ן

Information Element		Value/remark
- Default DPCH Offset Value		0 Integer(07)
Downlink information per radio link list	A1, A2,	3 ()
- Downlink information for each radio link	A3, A4,	
- Choice mode		TDD
- Primary CCPCH info		100
- Choice mode		TDD
- Choice TDD Option		1.28 Mcps TDD
- TSTD indicator		FALSE
- Cell parameters ID		Ref. to the Default setting in TS34.108
0.070 : "		clause 6.1 (TDD) Integer(0127)
- SCTD indicator - Downlink DPCH info for each RL		FALSE
- CHOICE mode		TDD
- DL CCTrCh List		100
- TFCS ID		2 Integer(1.8)
- Time info		3 ()
- Activation time		Now
- Duration		Infinite
- Common timeslot info		
- 2 nd interleaving mode		Default value is "Frame"
- TFCI coding		Reference to TS34.108 clause 6 Parameter set
- Puncturing limit		Reference to TS34.108 clause 6 Parameter
		set
- Repetition period		1
- Repetition length		NULL
 Downlink DPCH timeslots and codes 		
- First individual timeslot info		
- Timeslot number		
- CHOICE TDD option		1.28 Mcps TDD
- Timeslot number		4 OR 5 OR 6
- TFCI existence		TRUE
- Midamble shift and burst type		
- CHOICE TDD option		1.28 Mcps TDD
- Midamble allocation mode		Default midamble
- Midamble configuration		16
- Midamble Shift		Not Present
- CHOICE TDD option		1.28 Mcps TDD
- Modulation		QPSK
- SS-TPC Symbols		1
- Additional TPC-SS Sysbols		Not present
- First timeslot channelisation codes		Repeated (1,2) for each channelisation
		code assigned in the slot to meet the needs of TS34.108 clause 6
		Parameter Set.
- CHOICE codes representation	1	Bitmap
- Channelisation codes bitmap	1	Reference to TS34.108 clause 6.10
· ·	1	Parameter Set
- CHOICE more timeslots		No more timeslots
- UL CCTrCH TPC List	1	This list is not required for 1.28 Mcps TDD
DI COT-OLI I C	1	and is to be ignored by the UE.
- DL CCTrCH List to Remove	1	Not present
- SCCPCH Information for FACH	\	Not Present
Downlink information per radio link list - Downlink information for each radio link	A5 ,A7, A8	
- Choice mode		TDD
- Primary CCPCH info		
- Choice mode	1	TDD
- Choice TDD Option	1	1.28 Mcps TDD
- TSTD indicator	1	FALSE
- Cell parameters ID	1	Ref. to the Default setting in TS34.108
SCTD indicator	1	clause 6.1 (TDD) Integer(0127)
- SCTD indicator - Downlink DPCH info for each RL	1	FALSE Not Propert
- DOMININK DECH INIO IOI GACII KL		Not Present

Information Element		Value/remark
- SCCPCH Information for FACH		Not Present
Downlink information per radio link list	A6	Not Present

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"
A7	This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"
A8	This IE need for "Speech to CELL_FACH from CELL_DCH in CS"

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	0
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
CN domain identity	CS domain or PS domain
NAS message	See Specific Message Content for each test case

Contents of INITIAL DIRECT TRANSFER message: AM

Information Element	Value/remark	Version
Message Type		
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.	
CN domain identity	CS domain or PS domain	
Intra Domain NAS Node Selector	Set to the same octet string as in the IMSI stored in the USIM card	
NAS message	Set according to that indicated in specific message content for each test case	
START	This IE is checked to see if it is present.	
Establishment cause	See the specific test case	REL-5
Measured results on RACH	Not checked	

Contents of PAGING TYPE 1 message: TM (Speech in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
 CHOICE Used paging identity 	CN identity
- Paging cause	Terminating Conversational Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
 CHOICE Used paging identity 	CN identity
- Paging cause	Terminating Streaming Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of PAGING TYPE 1 message: TM (Packet in PS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS) (3.84 Mcps TDD option)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	0	
Integrity check info		
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string	
DDC massage as guerra gumbar	contains the most significant bit of the MAC-I.	
- RRC message sequence number	SS provides the value of this IE, from its internal counter.	
Integrity protection mode info	Not Present	
Ciphering mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this	
	IE present with the values of the sub IEs as stated below.	
	Else, this IE is omitted.	
- Ciphering mode command	Start/restart	
- Ciphering algorithm	Use one of the supported ciphering algorithms	
- Ciphering activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Radio bearer downlink ciphering activation time	Not Present	
info		
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256	
New U-RNTI	Not Present	
New C-RNTI	Not Present	
New DSCH-RNTI	Not Present	DEL 6
New H-RNTI	Not Present	REL-5
RRC State indicator	CELL_DCH	
UTRAN DRX cycle length coefficient CN information info	Not Present Not Present	
URA identity	Not Present	
- Signalling RB information to setup list	Not Present	
- RAB information for setup list	Not i resent	
- RAB information for setup		
- RAB info		
- RAB identity	0000 0001B	
,	The first/ leftmost bit of the bit string contains the most	
	significant bit of the RAB identity.	
- CN domain identity	CS domain	
- NAS Synchronization Indicator	Not Present	
- Re-establishment timer	UseT314	
- RB information to setup	40	
- RB identity	10 Not Present	
- PDCP info - CHOICE RLC info type	RLC info	
- CHOICE Walling 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		
 Information for each multiplexing option 		
- RLC logical channel mapping indicator	Not Present	
- Number of uplink RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	1 Not Present	
Logical channel identity CHOICE RLC size list	Not Present Configured	
- MAC logical channel priority	6	
- Downlink RLC logical channel info	l °	
- Number of downlink RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	6	1
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	Not Present	
- RB identity	11	1
- PDCP info	Not Present	1
- CHOICE RLC info type	RLC info	1
- CHOICE Uplink RLC mode	TM RLC	1
- Transmission RLC discard	Not Present	1

Information Element	Value/remark	Version
- Segmentation indication	FALSE	
- CHOICE Downlink RLC mode	TM RLC	
- Segmentation indication	FALSE	
- RB mapping info		
 Information for each multiplexing option 		
 RLC logical channel mapping indicator 	Not Present	
 Number of uplink RLC logical channels 	1	
 Uplink transport channel type 	DCH	
 UL Transport channel identity 	2	
- Logical channel identity	Not Present	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	6	
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	7	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	Not Present	
- RB identity	12	
- PDCP info	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	TM RLC	
- Transmission RLC discard	Not Present	
- Segmentation indication	FALSE	
- CHOICE Downlink RLC mode	TM RLC	
- Segmentation indication	FALSE	
- RB mapping info		
- Information for each multiplexing option		
- 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	Ů	
- 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	Not i lesent	
channels		
- PRACH TFCS	Not Present	
- CHOICE mode	TDD	
	טטו	
-Individual UL CCTrCH information - TFCS ID	(This IE is repeated for TEC number)	
	(This IE is repeated for TFC number.)	
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to	
DDACH TEGG	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.	
0750: (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		1

Information Element	Value/remark	Version
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport format information	·	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set	
- Number of TBs and TTI List	(This IE is repeated for TFI number.)	
- Transmission Time Interval	Not Present	
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set	
- CHOICE Logical Channel list	All	
- Semi-static Transport Format information	Deference to TC24 400 eleves C 40 December Cot	
 Transmission time interval Type of channel coding 	Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set	
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set	
Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set	
- Uplink transport channel type	DCH	
- UL Transport channel identity	2	
- TFS		
- 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	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	3	
- 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 Transmission Time Interval 	(This IE is repeated for TFI number.) Not Present	
Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set	
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set	
- Number of Transport blocks	(This IE is repeated for TFI number.)	
- CHOICE Logical Channel list	All	
- Semi-static Transport Format information		
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set	
 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	
- SCCPCH TPCS - 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	6	
- CHOICE DL parameters	Same as UL	
 Uplink transport channel type 	DCH	
- UL TrCH identity	1	
- DCH quality target		
- BLER Quality value	-6.3	
 Downlink transport channel type DL Transport channel identity 	DCH 7	
DE Transport Granner Identity	1	

Information Element	Value/remark	Version
- CHOICE DL parameters	Same as UL	
- 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 Present	
Frequency info	THOU TOOGHT	
- UARFCN Nt)	Reference to clause 5.1 Test frequencies	
Maximum allowed UL TX power	30dBm	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info	Opinik Di Ori inio	
- Opinik DPCH power control into	TDD	
- UL Target SIR	Reference to TS34.108 Parameter set.	
- OL Target SIK - CHOICE UL OL PC info		
- CHOICE OL OL PC INIO - CHOICE TDD option	Individually signalled 3.84 Mcps	
- Individual timeslot interference info	3.04 MCPS	
- Individual liftesiot interierice into		
	TDD	
- CHOICE mode	'	
- Uplink Timing Advance Control	Not Present	
- UL CCTrCH List		
- TFCS ld	1	
- Time info	(050 - 05N - (05N MOD-0 - 0)/MOD-050	
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration	infinite	
- Common timeslot info	B (
- 2 nd interleaving mode	Reference to TS34.108 clause 6 Parameter Set.	
- TFCI coding	Reference to TS34.108 clause 6 Parameter set.	
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter set.	
Panatitian Pariod	Reference to TS34.108 clause 6 Parameter set.	
- Repetition Period	Reference to TS34.108 clause 6 Parameter set.	
- Repetition Length	Reference to 1334. Too clause o Parameter set.	
- Uplink DPCH timeslots and code		
- First individual timeslot info	The number of an unlink time solet that has uppositioned	
- Timeslot number	The number of an uplink timeslot that has unassigned	
TECL ovictories	codes.	
- TFCI existence	TRUE	
- Midamble shift and burst type	2.94 Mana	
- CHOICE TDD option	3.84 Mcps	
- Midamble allocation mode	Default	
- Midamble configuration burst type 1	16	
and 3	(no deta)	
- CHOICE TDD option	(no data)	
- First timeslot channelisation codes	Repeated (1,2) for each channelisation code assigned in	
	the slot to meet the needs of TS34.108 clause 6	
Channelinetian	Parameter Set.	
- Channelisation code	(i/SF) where i denotes an unassigned code	
	matching the SF specified in TS34.108 clause 6	
OHOLOE " I I	Parameter Set.	
- CHOICE more timeslots	The presence of this IE depends upon the number of	
	resources specified in TS34.108 section 6 and the	
	number of slots in which they are being assigned.	
Downlink HS-PDSCH Information	Not Present	REL-5
Downlink information common for all radio links		
- Downlink DPCH info common for all RL		
- Timing indication	Maintain	
- CFN-targetSFN frame offset	Not Present	
 Downlink DPCH power control information 		1

Information Element	Value/remark	Version
- CHOICE mode	TDD	
- TPC step size	1 dB	
- CHOICE mode	TDD	
- CHOICE TDD option	3.84 Mcps (no data)	
- Default DPCH offset value	0	
- Downlink information for each radio link		
- Choice mode	TDD	
- Primary CCPCH info	155	
- CHOICE TDD option	3.84 Mcps	
- CHOICE SyncCase	Sync Case 1	
- Timeslot	PCCPCH timeslot	
- Cell parameters ID	0	
- SCTD indicator	U	
- Downlink DPCH info for each RL		
	TDD	
- CHOICE mode	טטו	
- DL CCTrCH List	1	
- TFCS ID	1	1
- Time info	(050 · O5N (05N 10 · 0))	1
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256	
- Duration	infinite	
- Common timeslot info	D (T004400	
- 2nd interleaving mode	Reference to TS34.108	
- TFCI coding	TRUE	
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set	
- Repetition period	1	
- Repetition length	Empty	
 Downlink DPCH timeslots and codes 		
- Individual timeslot info		
- Timeslot number	The number of a downlink timeslot that has	
	unassigned codes.	
- TFCI existence	TRUE	
 Midamble shift and burst type 		
- CHOICE TDD option	3.84 Mcps	
-CHOICE Burst Type		
-Type 1		
-Midamble Allocation Mode	Default	
- Midamble configuration burst	As defined in 3GPP TS 25.221	
type 1 and 3		
- First timeslot channelisation codes		
- First channelisation code	(i/SF) where i is the lowest numbered code	
	that is being assigned and SF is specified in	
	TS34.108 clause 6 Parameter Set	
- Last channelisation code	(j/SF) where j is the highest numbered code	
	that is being assigned in the slot.	
- Bitmap	Bitmap of the codes that are being assigned in	
	the slot.	
- CHOICE more timeslots	The presence of this IE depends upon whether	
5.15.5 <u>2</u> 515 timosisto	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	1
-SOUF OF HINDHIMATION FACE	INOUT LESCUE	

Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS) (3.84 Mcps TDD option)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	0	
Integrity check info		
- message authentication code	SS calculates the value of MAC-I for this message and	
	writes to this IE. The first/ leftmost bit of the bit string	
DDO	contains the most significant bit of the MAC-I.	
- RRC message sequence number	SS provides the value of this IE, from its internal counter.	
Integrity protection mode info Ciphering mode info	Not Present	
Ciphering mode into	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this	
	IE present with the values of the sub IEs as stated below.	
	Else, this IE is omitted.	
- Ciphering mode command	Start/restart	
- Ciphering algorithm	Use one of the supported ciphering algorithms	
- Ciphering activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Radio bearer downlink ciphering activation time	Not Present	
info		
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256	
New U-RNTI	Not Present "	
New C-RNTI	Not Present	
New DSCH-RNTI	Not Present	
New H-RNTI	Not Present	REL-5
RRC State indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	Not Present	
CN information info	Not Present	
URA identity	Not Present	
- Signalling RB information to setup	Not Present	
- RAB information for setup		
- RAB info	0000 0101B	
- RAB identity	0000 0101B The first/ leftmost bit of the bit string contains the most	
	significant bit of the RAB identity.	
- CN domain identity	PS domain	
- NAS Synchronization Indicator	Not Present	
- Re-establishment timer	UseT314	
- RB information to setup		
- RB identity	20	
- PDCP info	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No Discard	
- MAX_DAT	15	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST - Polling info	4	
- 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 - RB mapping info	Not Present	
I - No mapping into	I and the second	I

Information Element	Value/remark	Version
- 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	Not Present	
 Logical channel identity CHOICE RLC size list 	Not Present Configured	
- MAC logical channel priority	8	
- Downlink RLC logical channel info	o a constant of the constant o	
- 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 Number of uplink RLC logical channels 	Not Present	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	7	
- CHOICE RLC size list	Explicit List	
- RLC size index	Reference to TS34.108 clause 6 Parameter Set	
- MAC logical channel priority	8	
- Downlink RLC logical channel info	4	
- Number of downlink RLC logical channels	1 FACH	
 Downlink transport channel type DL DCH Transport channel identity 	Not Present	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	7	
RB information to be affected list	Not Present	
Downlink counter synchronisation info	Not Present	
UL Transport channel information for all transport		
channels	N. B.	
- PRACH TFCS - CHOICE mode	Not Present TDD	
-Individual UL CCTrCH information		
- TFCS ID	(This IE is repeated for TFC number.)	
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to	
·	TS34.108 clause 6 Parameter Set.)	
- PRACH TFCS	(This IE is repeated for TFC number.)	
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information		
 TFCS complete reconfigure information CHOICE TFCS Size 	Number of used bits must be enough to cover	
- CHOICE TPG5 Size	all combinations of CTFC from clauses 6.	
	Refer to TS34.108 clause 6 Parameter Set	
- CTFC information	Not Present	
- CHOICE mode	TDD	
 Individual UL CCTrCH information 	Not Present	
Deleted TrCH information list	Not Present	
Added or Reconfigured TrCH information list		
 Added or Reconfigured UL TrCH information Uplink transport channel type 	DCH	
- UL Transport channel identity	1	
- TFS		
- CHOICE Transport channel type	Dedicated transport channels	
 Dynamic Transport format information 	·	
- 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 Reference to TS34.108 clause 6.10 Parameter Set	
 Number of Transport blocks CHOICE Logical Channel list 	All	
- Semi-static Transport Format information	7.11	
- 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	I

Information Floment	Valuatramark	Varaian
Information Element CHOICE mode	Value/remark TDD (no data)	Version
DL Transport channel information common for all	(110 data)	
transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	TDD	
 Individual DL CCTrCH information 		
- DL TFCS Identity		
- TFCS ld	1	
 Shared Channel Indicator 	FALSE	
- CHOICE DL parameters	Independent	
- DL DCH TFCS	(This IE is repeated for TFC number.)	
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information		
 CHOICE TFCS representation 	Complete	
 TFCS complete reconfigure 		
information		
- CHOICE CTFC Size	Refer to TS34.108 clause 6.	
- CTFC information	Refer to TS34.108 clause 6.	
Added or Reconfigured TrCH information list		
- Added or Reconfigured DL TrCH information	DOLL	
Downlink transport channel type DL Transport channel identity	DCH 6	
- CHOICE DL parameters	Explicit	
- TFS	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 Reference to TS34.108 clause 6.10 Parameter Set	
Number of Transport blocks CHOICE Logical Channel list	ALL	
- 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	
- DCH quality target	6.2	
- BLER Quality value Frequency info	-6.3	
-CHOICE mode	TDD	
- UARFCN (Nt)	Reference to clause 5.1 Test frequencies	
Maximum allowed UL TX power	30 dBm	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info		
- CHOICE mode	TDD	
- UL Target SIR	Reference to TS34.108 Parameter set.	
- CHOICE UL OL PC info - CHOICE TDD option	Individually signalled 3.84 Mcps	
- Individual timeslot interference	ט.טד ויוטףס	
info		
- Individual timeslot interference		
- DPCH Constant Value	Values are used for open loop power control,	
- Dr Gri Gunstant Value	section 8 in TS 25.331	
- CHOICE mode	TDD	
- CHOICE HIOUE	טטו	

Information Element	Value/remark	Version
- Uplink Timing Advance Control	Not Present	
- UL CCTrCH List		
- 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 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	Treference to 1354.100 clause 0.101 afaitheter Set	
- Timeslot number	The number of an uplink timeslot that has	
- Timesiot number		
- TFCI existence	unassigned codes. TRUE	
	IRUE	
- Midamble shift and burst type	2.04 Mana	
- CHOICE TDD option	3.84 Mcps	
-CHOICE Burst Type		
-Type 1	D ()	
-Midamble Allocation Mode	Default	
 Midamble configuration burst 	As defined in 3GPP TS 25.221	
type 1 and 3		
 First timeslot channelisation codes 	Repeated (1,2) for each channelisation code assigned in	
	the slot to meet the needs of TS34.108 clause 6	
	Parameter Set.	
- Channelisation code	(i/SF) where i denotes an unassigned code	
	matching the SF specified in TS34.108 clause	
	6 Parameter Set.	
- CHOICE more timeslots	The presence of this IE depends upon the	
	number of resources specified in TS34.108	
	section 6 and the number of slots in which they	
	are being assigned.	
Downlink HS-PDSCH Information	Not Present	REL-5
Downlink information common for all radio links		
- Downlink DPCH info common for all RL		
- Timing indication	Maintain	
- CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control information	THE THOUSEN	
- DPC mode	0 (single)	
- CHOICE mode	TDD	
- CHOICE TDD option	3.84 Mcps (no data)	
- Default DPCH Offset Value	Not Present	
Downlink information for each radio link list	INOCT TOSCITE	
- Downlink information for each radio link list		
	TDD	
- Choice mode	TDD	
- Primary CCPCH info	Cura Casa 4	
- CHOICE SyncCase	Sync Case 1	
- Timeslot	PCCPCH timeslot	
- Cell parameters ID	0	
- SCTD indicator		
- Downlink DPCH info for each RL		
- CHOICE mode	TDD	
- DL CCTrCH List		
- TFCS ID	1	
- Time info		
 Activation time 	(256+CFN-(CFN mod 8 + 8))mod 256	
- Duration	infinite	
 Common timeslot info 		
- 2nd interleaving mode	Reference to TS34.108	
- TFCI coding	TRUE	
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set	
- Repetition period	1	
- Repetition length	Empty	
Downlink DPCH timeslots and codes		
- Individual timeslot info		
- Timeslot number	The number of a downlink timeslot that has	
	Line number of a downlink timeslot that has	1

Information Element	Value/remark	Version
	unassigned codes.	
- TFCI existence	TRUE	
 Midamble shift and burst type 		
- CHOICE TDD option	3.84 Mcps	
-CHOICE Burst Type		
-Type 1		
-Midamble Allocation Mode	Default	
- Midamble configuration burst	As defined in 3GPP TS 25.221	
type 1 and 3		
- First timeslot channelisation codes	/// / / / / / / / / / / / / / / / / /	
- First channelisation code	(i/SF) where i is the lowest numbered code	
	that is being assigned and SF is specified in	
Lost aboundination and	TS34.108 clause 6 Parameter Set	
- Last channelisation code	(j/SF) where j is the highest numbered code	
Ditar an	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	
- CHOICE IIIdle timesiots	the requirements of TS34.108 clause 6	
	Parameter Set could be met by the codes that	
	have been assigned in the first timeslot	
	nave been assigned in the mist timesiot	
- UL CCTrCH TPC List	Not Present	
02 00 0. 2.0.	Tion Toolin	
-SCCPCH information for FACH	Not Present	

Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

Information Element	Condition	Value/remark	Version
Message Type	A1, A2, A3, A4, A5, A6, A7, A8		
RRC transaction identifier	Α, Αο	Arbitrarily selects an integer between 0 and 3	
Integrity check info			
- message authentication code		SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from its internal counter.	
Integrity protection mode info		Not Present	
Ciphering mode info		Not Present	
Activation time	A1, A2, A3, A7, A8	(256+CFN-(CFN MOD 8 + 8))MOD 256	
Activation time	A4, A5, A6	Now	
New U-RNTI	A1, A2, A3, A4, A5, A6,	Not Present	
	A7, A8		
New C-RNTI	A1, A2, A3, A4, A7, A8	Not Present	
New C-RNTI	A5, A6	'1010 1010 1010 1010'	
New DSCH-RNTI	A1, A2, A3, A4, A5, A6, A7, A8	Not Present	
New H-RNTI	,	Not Present	REL-5
RRC State indicator	A1, A2, A3, A4, A7, A8	CELL_DCH	
RRC State indicator	A5, A6	CELL_FACH	
UTRAN DRX cycle length coefficient	A1, A2, A3, A4, A5, A6, A7, A8	Not Present	

Information Element	Condition	Value/remark	Version
CN information info	- Containen	Not Present	7 01 01011
URA identity		Not Present	
- Signalling RB information to setup list		Not Present	
- RAB information for setup list	A1, A7		
- RAB info			
- RAB identity			
- CHOICE RAB identity type		RAB identity (GSM-MAP)	
- RAB identity		0000 0001B	
		The first/ leftmost bit of the bit string	
		contains the most significant bit of the RAB identity.	
- CN domain identity		CS domain	
- NAS Synchronization Indicator		Not Present	
- Re-establishment timer		useT314	
- RB information to setup list		4661611	
- RB information to setup			
- RB identity		10	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		TM RLC	
- Transmission RLC discard		Not Present	
- Segmentation indication		FALSE	
- CHOICE Downlink RLC mode		TM RLC	
- Segmentation indication		FALSE	
RB mapping info Information for each multiplexing option			
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- Logical channel identity		Not Present	
- CHOICE RLC size list		Configured	
 MAC logical channel priority 		8	
- Downlink RLC logical channel info			
- Number of downlink RLC logical channels		1	
Downlink transport channel type DL DCH Transport channel identity		DCH 6	
- DL DSCH Transport channel identity		Not Present	
- Logical channel identity		Not Present	
RAB information to setup list	A2, A8		
- RAB info			
- RAB identity			
- CHOICE RAB identity type		RAB identity (GSM-MAP)	
- RAB identity		0000 0001B	
		The first/ leftmost bit of the bit string	
		contains the most significant bit of the	
- CN domain identity		RAB 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 FALSE	
Segmentation indication CHOICE Downlink RLC mode		TM RLC	
- Segmentation indication		FALSE	
- RB mapping info		.,	
Information for each multiplexing option			
- RLC logical channel mapping indicator		Not Present	
 Number of uplink RLC logical channels 		1	
 Uplink transport channel type 		DCH	
- UL Transport channel identity		1	
 Logical channel identity 		Not Present	

Information Element	Condition	Value/remark	Version
- 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	
- RB identity		11	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		TM RLC	
- Transmission RLC discard		Not Present	
- Segmentation indication		FALSE	
- CHOICE Downlink RLC mode		TM RLC	
- Segmentation indication		FALSE	
- RB mapping info			
- Information for each multiplexing option		Not Droppet	
- RLC logical channel mapping indicator		Not Present	
Number of uplink RLC logical channels Indigk transport channel type		1	
 Uplink transport channel type UL Transport channel identity 		DCH 2	
Logical channel identity - Logical channel identity		Not Present	
- Logical channel identity - CHOICE <i>RLC size list</i>		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	
- DL DSCH Transport channel identity		Not Present	
- Logical channel identity		Not Present	
- RB identity		12	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		TM RLC	
- Transmission RLC discard		Not Present	
- Segmentation indication		FALSE	
- CHOICE Downlink RLC mode		TM RLC	
 Segmentation indication 		FALSE	
- RB mapping info			
 Information for each multiplexing option 			
 RLC logical channel mapping indicator 		Not Present	
 Number of uplink RLC logical channels 		1	
- Uplink transport channel type		DCH	
- UL Transport channel identity		3	
- 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		8 Not Present	
- DL DSCH Transport channel identity		Not Present	
- Logical channel identity	A2 A4 A5	Not Present	
RAB information for setup list	A3, A4, A5, A6		
- RAB info	AU		
- RAB into - RAB identity			
- CHOICE RAB identity type		RAB identity (GSM-MAP)	
- RAB identity		0000 0101B	
TO LD Identity		The first/ leftmost bit of the bit string	
		contains the most significant bit of the	
		RAB identity.	
- CN domain identity		PS domain	
- NAS Synchronization Indicator		Not Present	
- Re-establishment timer		useT315	
- RB information to setup list			
	1	ı	ı

Information Element	Condition	Value/remark	Version
- 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		Not present	
- Header compression information		Not present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		AM RLC	
- Transmission RLC discard		Mary DAT natura naminaisma	
- CHOICE SDU Discard Mode		Max DAT retransmissions	
- MAX_DAT		4	
- Timer_MRW		100	
- MaxMRW		4	
- Transmission window size		128	
- Timer_RST		500	
- Max_RST		4	
- Polling info			
- Timer_poll_prohibit		200	
- Timer_poll		200	
- Poll_PDU		Not Present	
- Poll_SDU		1	
- Last transmission PDU poll		TRUE	
- Last retransmission PDU poll		TRUE	
- Poll_Windows		99	
- Timer_poll_periodic		Not Present	
- CHOICE Downlink RLC mode		AM RLC	
- In-sequence delivery		TRUE	
- Receiving window size		128	
- Downlink RLC status info		120	
- Timer_status_prohibit		200	
- Timer_EPC		200 TRUE	
- Missing PDU indicator			
- Timer_STATUS_periodic		Not Present	
- RB mapping info		0.0004	
- 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 7	
- Logical channel identity		1 -	
- CHOICE RLC size list		Explicit list	
- RLC size index		Reference to TS34.108 clause 6	
		Parameter Set	
- MAC logical channel priority		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		8	
RB information to be affected list	A1, A2, A3,	Not Present	
	A4, A5, A6,		
	A7, A8		
•		•	. !

Information Element	Condition	Value/remark	Version
Downlink counter synchronisation info	A1, A2, A3,	Not Present	
	A4, A5, A6, A7, A8		
UL Transport channel information common for all	A1, A2, A3,		
transport channels	A4, A5, A6, A7, A8		
- PRACH TFCS		Not Present	
- CHOICE mode - Individual UL CCTrCH information		TDD	
- UL TFCS Identity			
- TFCS ID		1	
- Shared Channel Indicator		FALSE	
- UL TFCS - CHOICE <i>TFCI signalling</i>		Normal	
- TFCI Field 1 Information		Tromia.	
- CHOICE TFCS representation		Complete reconfiguration	
 TFCS complete reconfiguration information CHOICE CTFC Size 		Number of bits used must be enough	
011010E 011 0 0/20		to cover all combinations of CTFC	
		from TS34.108 clause 6.11.5.4	
- CTFC information		Parameter Set. This IE is repeated for TFC numbers	
- CTT C Information		and reference to TS34.108 clause	
		6.11.5.4 Parameter Set	
- CTFC		Reference to TS34.108 clause 6.11.5.4 Parameter Set	
- Power offset information		0.11.0.41 diameter Set	
- CHOICE Gain Factors		Computed Gain Factors(The last TFC	
- Reference TFC ID		is set to Signalled Gain Factors) 0 Integer(0 3)	
- CHOICE Gain Factors		Signalled Gain Factors(Not Present if	
		the CHOICE Gain Factors is set to	
- CHOICE mode		ComputedGain Factors)	
- Gain Factor β_d		15	
- Reference TFC ID		0 Integer(0 3)	
- CHOICE mode		TDD	
 TFC subset CHOICE Subset representation 		Full transport format combination set	
- TFC subset list		Not Present	
Deleted TrCH information list	A1, A2, A3,	Not Present	
	A4, A5, A6, A7, A8		
Added or Reconfigured UL TrCH information	A1, A3 A4,	1 DCH added, 1 DCH reconfigured	
Added as December and III. Tools in fearer than	A5, A6, A7		
 Added or Reconfigured UL TrCH information Uplink transport channel type 		DCH	
- UL Transport channel identity		5	
- TFS		De diseased transport shape als	
 CHOICE Transport channel type Dynamic Transport format information 		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.11	
Number of TDs and TTLL ist	1 to movTF	Parameter Set	
 Number of TBs and TTI List Transmission Time Interval 	1 to maxTF	(This IE is repeated for TF number.) Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
CHOICE Logical Channel list		Parameter Set All	
 CHOICE Logical Channel list Semi-static Transport Format information 			
- Transmission time interval		Reference to TS34.108 clause 6.11	
- Type of channel coding		Parameter Set Reference to TS34.108 clause 6.11	
- Type of channel coding		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11	
Poto motohing attribute		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11 Parameter Set	

Information Element	Condition	Value/remark	Version
- CRC size		Reference to TS34.108 clause 6.11	- 33.
		Parameter Set	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- TFS		Dedicated transport channels	
- CHOICE Transport channel type - Dynamic Transport format information		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.11	
TREO GIZO		Parameter Set	
- Number of TBs and TTI List	1 to maxTF	(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
01101051 : 101 11:4		Parameter Set	
- CHOICE Logical Channel list - Semi-static Transport Format information		All	
- Transmission time interval		Reference to TS34.108 clause 6.11	
Transmission time interval		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11	
,, , , , , , , , , , , , , , , , , , ,		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
- CRC size		Parameter Set Reference to TS34.108 clause 6.11	
- 01/0 21/2		Parameter Set	
Added or Reconfigured TrCH information list	A2, A8	4 TrCHs(DCH for DCCH and 3DCHs	
- Added of According area area and a mineral according a	7 12, 7 10	for DTCH)	
- Added or Reconfigured UL TrCH information		,	
- Uplink transport channel type		DCH	
- UL Transport channel identity		5	
- TFS		De disease datas assessant abassas as	
- CHOICE Transport channel type - Dynamic Transport format information		Dedicated transport channels	
- RLC Size		Reference to TS34.108 clause 6.11	
NEO 0120		Parameter Set	
- Number of TBs and TTI List	1 to maxTF	(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
 Number of Transport blocks 		Reference to TS34.108 clause 6.11	
01101051 : 101 11:4		Parameter Set	
- CHOICE Logical Channel list		All	
 Semi-static Transport Format information Transmission time interval 		Reference to TS34.108 clause 6.11	
- manamasion time interval		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11	
5		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
- CRC size		Parameter Set Reference to TS34.108 clause 6.11	
- 01/0 3126		Parameter Set	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		Deference to TCC4 400 slaves 0.44	
- RLC Size		Reference to TS34.108 clause 6.11 Parameter Set	
- Number of TBs and TTI List	1 to maxTF	(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
·		Parameter Set	
- CHOICE Logical Channel list		All	
- Semi-static Transport Format information		Deference to TOO 4 400 1 044	
- Transmission time interval		Reference to TS34.108 clause 6.11 Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11	
Type of charmer county	1	Notoronoc to 1007.100 dause 0.11	

Information Element	Condition	Value/remark	Version
- Coding Rate		Parameter Set Reference to TS34.108 clause 6.11	
- Couling Nate		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
- CRC size		Parameter Set Reference to TS34.108 clause 6.11 Parameter Set	
- Uplink transport channel type		DCH	
- UL Transport channel identity		2	
- TFS - CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		Dedicated transport charmers	
- RLC Size		Reference to TS34.108 clause 6.11	
Number of TDs and TTLL ist	4 to 100 0 VTF	Parameter Set	
- Number of TBs and TTI List - Transmission Time Interval	1 to maxTF	(This IE is repeated for TF number.) Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
		Parameter Set	
- CHOICE Logical Channel list - Semi-static Transport Format information		All	
- Transmission time interval		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11	
- Coding Rate		Parameter Set Reference to TS34.108 clause 6.11	
County Hate		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
- CRC size		Parameter Set Reference to TS34.108 clause 6.11	
0110 0120		Parameter Set	
- Uplink transport channel type		DCH	
- UL Transport channel identity - TFS		3	
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport format information		·	
- RLC Size		Reference to TS34.108 clause 6.11 Parameter Set	
- Number of TBs and TTI List	1 to maxTF	(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
- CHOICE Logical Channel list		Parameter Set All	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11	
- Type of channel coding		Parameter Set Reference to TS34.108 clause 6.11	
Type of charmer coding		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11	
- Rate matching attribute		Parameter Set Reference to TS34.108 clause 6.11	
- itale matering attribute		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11	
CHOICE mode		Parameter Set TDD (no data)	
DL Transport channel information common for all	A1, A2, A7,	(100 data)	
transport channel	A8		
- SCCPCH TFCS - CHOICE mode		Not Present	
- Individual DL CCTrCH information		TDD	
- DL TFCS Identity			
- TFCS ID		2	
 Shared Channel Indicator CHOICE DL parameters 		FALSE SameAsUL	
- UL DCH TFCS Identity		- Ca.1107 100 E	
- TFCS ID		1 1	
- Shared Channel Indicator DL Transport channel information common for all	A3, A4, A5,	FALSE	
DE Transport Granifer information common for all	1 AU, AH, AU,	ı	

Information Element	Condition	Value/remark	Version
transport channel	A6	- Arabi arrai N	2.2.2.
- SCCPCH TFCS	7.0	Not Present	
- CHOICE mode		TDD	
- Individual DL CCTrCH information			
- DL TFCS Identity			
- TFCS ID		3	
		2	
- Shared Channel Indicator		FALSE	
- CHOICE DL parameters		Independent	
- DL TFCS			
- CHOICE TFCI Signalling		Normal	
- TFCI Field 1 Information			
- CHOICE TFCS representation		Complete reconfiguration	
 TFCS complete reconfiguration information 			
- CHOICE CTFC Size		Number of bits used must be enough	
		to cover all combinations of CTFC	
		from clause TS34.108 clause 6.11.5.4	
		Parameter Set.	
- CTFC information		This IE is repeated for TFC numbers	
		and reference to TS34.108 clause	
		6.11.5.4	
- CTFC		Reference to TS34.108 clause	
-0110		6.11.5.4 Parameter Set	
- Power offset information			
		Not Present	
Deleted TrCH information list	A1, A2, A3,	Not Present	
	A4, A5, A6,		
	A7, A8		
Added or Reconfigured TrCH information list	A1	1 DCH added, 1 DCH reconfigured	
- Added or Reconfigured DL TrCH information			
- Downlink transport channel type		DCH	
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target			
- BLER Quality value		-2.0 Real(-6.30 by step of 0.1)	
- Downlink transport channel type		DCH	
- DL Transport channel identity		6	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		1	
- DCH quality target			
		-2.0 Real(-6.30 by step of 0.1)	
- BLER Quality value	AO A4 A5		
Added or Reconfigured TrCH information list	A3, A4, A5,	2 TrCHs(DCH for DCCH and DCH for	
A	A6, A7	DTCH)	
- Added or Reconfigured DL TrCH information		5011	
- 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 Real(-6.30 by step of 0.1)	
- Downlink transport channel type		DCH	
- DL Transport channel identity		6	
- CHOICE DL parameters		Explicit	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic transport format information		Dodioated transport originies	
- RLC Size		Reference to TS34.108 clause 6.11	
- INLO SIZE			
Number of TDs and TTLL ist		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11	
	1	Parameter Set	

Information Element	Condition	Value/remark	Version
- Type of channel coding		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11	
-		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
ŭ		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11	
5.15 S. <u>—</u> 5		Parameter Set	
- DCH quality target			
- Transparent mode signalling info		Not Present	
Added or Reconfigured TrCH information list	A2, A8	4 TrCHs(DCH for DCCH and 3DCHs	
7 Added of Resortinguist 11-011 information not	712,710	for DTCH)	
- Added or Reconfigured DL TrCH information		101 1011)	
- Downlink transport channel type		DCH	
- DL Transport channel identity		10	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		5	
- DCH quality target		3	
- Transparent mode signalling info		Not Present	
- Downlink transport channel type		DCH	
- DL Transport channel identity		6	
		1 -	
- CHOICE DL parameters - TFS		Explicit	
=		De dicate dituanan anti alcannala	
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic transport format information		D-f t- T004 400 -l 0 44	
- RLC Size		Reference to TS34.108 clause 6.11	
N I CTD LTTLL:		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Semi-static Transport Format information		D (T004.400	
- Transmission time interval		Reference to TS34.108 clause 6.11	
_ ,		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11	
DOLL III		Parameter Set	
- DCH quality target			
- BLER Quality value		-2.0	
- Downlink transport channel type		DCH	
- DL Transport channel identity		7	
- CHOICE DL parameters		Explicit	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic transport format information			
- RLC Size		Reference to TS34.108 clause 6.11	
		Parameter Set	
 Number of TBs and TTI List 		(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
 Number of Transport blocks 		Reference to TS34.108 clause 6.11	
		Parameter Set	
 Semi-static Transport Format information 			
- Transmission time interval		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Coding Rate		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
_		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11	
0110 0120	1	TOTOTOTION TO TOO TOO CIAUSE U.TT	

Information Element	Condition	Value/remark	Version
		Parameter Set	1 01 01 01
- DCH quality target			
- BLER Quality value		-2.0	
- Downlink transport channel type		DCH	
- DL Transport channel identity		8 Familiait	
- CHOICE DL parameters - TFS		Explicit	
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic transport format information		Dedicated transport charmers	
- RLC Size		Reference to TS34.108 clause 6.11	
1.20 0.20		Parameter Set	
- Number of TBs and TTI List		(This IE is repeated for TF number.)	
- Transmission Time Interval		Not Present	
- Number of Transport blocks		Reference to TS34.108 clause 6.11	
		Parameter Set	
- Semi-static Transport Format information			
- Transmission time interval		Reference to TS34.108 clause 6.11	
T () "		Parameter Set	
- Type of channel coding		Reference to TS34.108 clause 6.11	
Coding Pate		Parameter Set Reference to TS34.108 clause 6.11	
- Coding Rate		Parameter Set	
- Rate matching attribute		Reference to TS34.108 clause 6.11	
Trate matering attribute		Parameter Set	
- CRC size		Reference to TS34.108 clause 6.11	
		Parameter Set	
- DCH quality target			
- BLER Quality value		-2.0	
Frequency info	A1, A2, A3,		
	A4, A5, A7,		
- Choice mode	A8	TDD	
- UARFCN (Nt)		Reference to clause 5.1 Test	
- OAK ON (M)		frequencies	
Frequency info	A6	Not Present	
Maximum allowed UL TX power	A1, A2, A3,	33dBm	
·	A4, A7, A8		
Maximum allowed UL TX power	A5, A6	Not Present	
CHOICE channel requirement	A5, A6	Not Present	
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info	
- Uplink DPCH power control info	A4, A7, A8		
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- PRX _{PDPCHdes}		Integer (-12058 by step of 1)	
- CHOICE UL OL PC info		lineger (-12036 by step or 1)	
- Broadcast UL OL PC info		Null	
- Uplink Timing Advance Control - UL CCTrCH List		Not Present	
- UL CCTRCH List - TFCS ID		1	
		Real (-11 20 by step of 0.5dB)	
- UL Target SIR		Real (-11 20 by step of 0.5dB) Reference to TS34.108 Parameter	
		set.	
- Time info			
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD	
		256	
- Duration		Infinite	
- Common timeslot info			
- 2 nd interleaving mode		Default value is "Frame"	
- TFCI coding		Reference to TS34.108 clause 6	
_		Parameter set	
- Puncturing limit		Reference to TS34.108 clause 6	
		Parameter set	
- Repetition period		1	
- Repetition length			

Information Element	Condition	Value/remark	Version
- Uplink DPCH timeslots and code			
- Dynamic SF usage		FALSE	
- First individual timeslot info			
- Timeslot number			
- CHOICE TDD option		1.28 Mcps TDD	
- Timeslot number		1 OR 2 OR 3	
- TFCI existence		TRUE	
- Midamble shift and burst type		1.00 M TDD	
- CHOICE TDD option		1.28 Mcps TDD	
Midamble allocation mode Midamble configuration		Default midamble 16	
- Midamble Configuration - Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
- Additional TPC-SS Symbols		Not present	
- First timeslot Code List		Repeated (1,2) for each	
		channelisation code assigned	
		in the slot to meet the needs	
		of TS34.108 clause 6	
ah anna liantian an dan		Parameter Set.	
- channelisation codes		(SF/ i) where i denotes an unassigned code matching the SF	
		specified in TS34.108 clause	
		6 Parameter Set.	
- CHOICE more timeslots		No more timeslots	
- UL CCTrCH List to Remove		Not present	
CHOICE Mode	A1, A2, A3,	TDD	
	A4, A5, A6,		
Downlink HS-PDSCH Information	A7, A8	Not Present	REL-5
Downlink information common for all radio links	A5, A6	Not Present	INLL-3
Downlink information common for all radio links	A1, A2, A3		
- Downlink DPCH info common for all RL	, ,		
- Timing indication		Maintain	
- CFN-targetSFN frame offset		Not Present	
Downlink DPCH power control information CHOICE mode		TDD	
- TPC Step Size		100 1	
- MAC-d HFN initial value		Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value Downlink information common for all radio links	A4, A7, A8	Not Present	
- Downlink DPCH info common for all RL	1,7,7.0		
- Timing indication		Initialise	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control information		TDD	
- CHOICE mode - TPC Step Size		TDD 1	
- MAC-d HFN initial value		Not Present	
- CHOICE mode		TDD	
- CHOICE mode		TDD	
- CHOICE TDD option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Default DPCH Offset Value		TDD	
- CHOICE mode - Default DPCH Offset Value		TDD 0 Integer(07)	
Downlink information per radio link list	A1, A2, A3,	o integer(or)	
por region in the	A4, A7, A8		
- Downlink information for each radio link			
- Choice mode		TDD	
- Primary CCPCH info			

Information Element	Condition	Value/remark	Version
- Choice mode		TDD	
- Choice TDD Option		1.28 Mcps TDD	
- TSTD indicator		FALSE	
- Cell parameters ID		Ref. to the Default setting in	
		TS34.108 clause 6.1 (TDD) Integer(0127)	
- SCTD indicator		FALSE	
- Downlink DPCH info for each RL		TALOE	
- CHOICE mode		TDD	
- DL CCTrCh List			
- TFCS ID		2 Integer(1.8)	
- Time info			
- Activation time		Now	
- Duration		Infinite	
- Common timeslot info		Default value is "France"	
- 2 nd interleaving mode		Default value is "Frame"	
- TFCI coding		Reference to TS34.108 clause 6 Parameter set	
- Puncturing limit		Reference to TS34.108 clause 6	
- 1 dilotaring infint		Parameter set	
- Repetition period		1 diamotor set	
- Repetition length		NULL	
- Downlink DPCH timeslots and codes			
- First individual timeslot info			
- Timeslot number			
- CHOICE TDD option		1.28 Mcps TDD	
- Timeslot number		4 OR 5 OR 6	
- TFCI existence		TRUE	
- Midamble shift and burst type			
- CHOICE TDD option		1.28 Mcps TDD	
- Midamble allocation mode		Default midamble	
- Midamble configuration		16	
- Midamble Shift		Not Present	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
- Additional TPC-SS Sysbols		Not present	
- First timeslot channelisation codes		Repeated (1,2) for each	
		channelisation code assigned	
		in the slot to meet the needs	
		of TS34.108 clause 6	
		Parameter Set.	
- CHOICE codes representation			
- Channelisation codes bitmap		Reference to TS34.108 clause 6.11	
- CHOICE more timeslots		Parameter Set	
		No more timeslots This list is not required for 1.28 Mcps	
- UL CCTrCH TPC List		TDD and is to be ignored by	
		the UE.	
- UL TPC TFCS Identity			
- TFCS ID		1	
- Shared Channel Indicator		FALSE	
- DL CCTrCH List to Remove		Not present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A5		
- Downlink information for each radio link			
- Choice mode		TDD	
- Primary CCPCH info			
- Choice mode		TDD	
- Choice TDD Option		1.28 Mcps TDD	
- TSTD indicator		FALSE Ref. to the Default setting in	
- Cell parameters ID		Ref. to the Default setting in TS34.108 clause 6.1 (TDD)	
		Integer(0127)	
- SCTD indicator		FALSE	
COTE INGIDATOR	ı	1.7.202	<u>l</u>

Information Element	Condition	Value/remark	Version
- Downlink DPCH info for each RL		Not Present	
- SCCPCH Information for FACH		Not Present	
Downlink information per radio link list	A6	Not Present	

Condition	Explanation
A1	This IE need for "Non speech to CELL_DCH from CELL_DCH in CS"
A2	This IE need for "Speech to CELL_DCH from CELL_DCH in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"
A7	This IE need for "Non speech to CELL_DCH from CELL_FACH in CS"
A8	This IE need for "Speech to CELL_DCH from CELL_FACH in CS"

Contents of RADIO BEARER SETUP COMPLETE message: AM

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	Checked to see if the value is identical to the same IE	
	in the downlink RADIO BEARER SETUP message.	
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is	
	compared against the XMAC-I value computed by SS.	
	The first/ leftmost bit of the bit string contains the most	
	significant bit of the MAC-I.	
- RRC Message sequence number	This IE is checked to see if it is present. The value is	
	used by SS to compute the XMAC-I value.	
Uplink integrity protection activation info	Not checked.	
CHOICE mode	TDD	
- CHOICE TDD option	Check that this IE is present	REL-4
START	Not checked (if ciphering is OFF), check the presence if ciphering is ON.	
COUNT-C activation time	The presence of this IE depends on the following 2	
	factors: (a) There exists RB(s) mapped to RLC-TM and	
	(b) UE is transiting to CELL_DCH state after the RB	
	establishment procedure. Else, this IE is absent.	
Radio bearer uplink ciphering activation time	If ciphering is not activated in RADIO BEARER SETUP	
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.	
Uplink counter synchronisation info	Not present	

Contents of RADIO BEARER SETUP FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement
Radio bearers for which reconfiguration would have succeeded	Not Check

Contents of RADIO BEARER RELEASE COMPLETE message: AM (1.28 Mcps TDD)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.	
Integrity check info		
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.	
Uplink integrity protection activation info CHOICE mode	Not checked.	
- CHOICE TDD option	1.28 Mcps TDD (no data)	
COUNT-C activation time	The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent.	
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.	
Uplink counter synchronisation info	Not checked	

Contents of RADIO BEARER RELEASE FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement
Radio bearers for which reconfiguration would have succeeded	Not checked

Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark	Version
Message Type		
Predefined configuration status information	Check that this IE is present	REL-5
Initial UE identity		
- CHOICE UE id type		
- IMSI (GSM-MAP)	Set to the UE's IMSI (GSM-MAP) or TMSI.	
Establishment cause	To be checked against requirement if specified	
Protocol error indicator	FALSE	
UE Specific Behaviour Information 1 idle	This IE will not be checked by default behaviour,	
•	but in specific test case.	
Measured results on RACH	Not checked	
Access stratum release indicator	Check that this IE is present	REL-4

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark	Version
Message Type		
U-RNTI - SRNC identity	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B	R99, REL-4
- S-RNTI	0000 0000 0000 0000 0001B	
CHOICE identity type	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.	REL-5
- U-RNTI	,	
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
- Group identity	[FFS]	
- Group release information	[FFS]	
RRC transaction identifier	0	
Integrity check info	This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.	
N308	2 (for CELL_DCH state). Not Present (for UE in other connected mode states).	
Release cause	Normal event	
Rplmn information	Not Present	

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

Information Element	Semantics description
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.
Integrity check info	
- Message authentication code	Checked to see if it's identical to the value of XMAC-I calculated by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	Checked to see if it is present. This number is used by the SS to compute the XMAC-I
Error indication	Not checked

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (3.84 Mcps TDD option)

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message	
RRC transaction identifier Activation time	0 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	3	
- UE radio access FDD capability	FALSE	
update requirement	TALOL	
- UE radio access TDD capability	TRUE	
update requirement		
- System specific capability update	GSM	
requirement list		
CHOICE specification mode - Complete specification	Complete specification	REL-5 REL-5
- Signalling RB information to setup	(UM DCCH for RRC)	0
- RB identity	Not Present	
- CHOICE RLC info type	110111000111	
- RLC info		
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard	Not Present	
Handingolon NEO diobard		
- CHOICE Downlink RLC mode	UM RLC	
- RB mapping info	OWI INCO	
- Information for each multiplexing	2 RBMuxOptions	
option	2 Notwick Options	
- RLC logical channel mapping	Not Present	
indicator	140t i 1000lit	
- 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	Configured	
- Downlink RLC logical channel info	['	
	1	
 Number of RLC logical channels Downlink transport channel type 	1 DCH	
Downlink transport channel type DL DCH Transport channel	10	
identity	10	
- DL DSCH Transport channel	Not Present	
identity		
 Logical channel identity 	1	
 RLC logical channel mapping 	Not Present	
indicator		
 Number of RLC logical channels 	1	
 Uplink transport channel type 	RACH	
 UL Transport channel identity 	Not Present	
 Logical channel identity 	1	
- CHOICE RLC size list	Explicit List	
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps	
	signalling radio bearer	
 MAC logical channel priority 	1	
 Downlink RLC logical channel info 		
 Number of RLC logical channels 	1	
 Downlink transport channel type 	FACH	
- DL DCH Transport channel	Not Present	
identity	1,1,2	
- DL DSCH Transport channel	Not Present	
identity		

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- Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - Logical channel priority - Downlink RLC logical channels - Dwhlink transport channel identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Duffer Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel identity - LOgical channel identity - LOgical channel identity - LOgical channel identity - LOgical channel identity - LOgical channel identity - LOgical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel identity - Dumlink transport channel identity - Duffer Transport channel identity - Downlink RLC logical channel info - Number of RLC log	- Timer_EPC		
- RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Du DCH Transport channel type - DL DCH Transport channel identity - Logical channel identity - Logical channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel type - UL Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel identity - Downlink RLC logical channel info - Number of RLC logical cha		_	
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- RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel Not Present 1 RACH Not Present 2 Explicit List - According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer 2 FACH Not Present 1 Not Present	1		
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- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel solution identity - DL DCH Transport channel identity - DL DSCH Transport channel - UL Transport channel type - CHOICE RLC size list - CHOICE RLC size list - CHOICE RLC size list - According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer 2 - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channel type - DL DCH Transport channel Not Present Not Present			
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- MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel kbps signalling radio bearer 2 FACH Not Present Not Present			
- MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel Not Present	- RLC size index		
- Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel Not Present	MAC logical abancel priority.		
- Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel Not Present Not Present		4	
- Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel Not Present Not Present	- Number of RLC logical channels		
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- DL DSCH Transport channel Not Present	I		
identity	- DL DSCH Transport channel	Not Present	
	identity		

Information Element	Value/remark	Version
- Logical channel identity	2	
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)	
- RB identity	Not Present	
- CHOICE RLC info type - RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No Discard	
- MAX_DAT	15	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	1	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll - Poll_PDU	200 Not present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99	
- 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 TRUE	
- Missing PDU indicator - Timer_STATUS_periodic	Not Present	
- RB mapping info	110011	
- Information for each multiplexing	2 RBMuxOptions	
option		
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
 UL Transport channel identity 	5	
- Logical channel identity	3 Configurad	
CHOICE RLC size listMAC logical channel priority	Configured 3	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
 Downlink transport channel type 	DCH	
- DL DCH Transport channel	10	
identity - DL DSCH Transport channel	Not Present	
identity	Hot i losofit	
- Logical channel identity	3	
- RLC logical channel mapping	Not Present	
indicator	1	
 Number of RLC logical channels Uplink transport channel type 	1 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	
- MAC logical channel priority	kbps signalling radio bearer 3	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel	Not Present	
identity - DL DSCH Transport channel	Not Present	
identity		

Information Element	Value/remark	Version
- Logical channel identity	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	
- Transmission window size - Timer_RST	500	
- Max_RST	1	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll - Poll_PDU	200 Not present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	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 TRUE	
- Missing PDU indicator - Timer_STATUS_periodic	Not Present	
- RB mapping info		
 Information for each multiplexing 	2 RBMuxOptions	
option	Not Brooms	
- 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 Configured	
- CHOICE RLC size list - MAC logical channel priority	Configured 4	
- Downlink RLC logical channel info		
 Number of RLC logical channels 	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel	10	
identity - DL DSCH Transport channel	Not Present	
identity		
- Logical channel identity	4	
- RLC logical channel mapping	Not Present	
indicator - 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	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer	
- MAC logical channel priority	4	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel	Not Present	
identity		

Information Element	Value/remark	Version
- Logical channel identity	4	
UL Transport channel information for all		
transport channels		
- PRACH TFCS	Not Present	
- CHOICE mode	TDD	
-Individual UL CCTrCH		
information		
- UL TFCS ID	(This IE is repeated for TFC number.)	
- UL TFCS	Defection is a feeting and the second of	
- TFC subset	Default value is the complete existing set of	
AU 1-	transport format combinations	
- Allowed Transport Format	0 to MaxTFCvalue-1 (MaxTFCValue is refer to	
combination - PRACH TFCS	TS34.108 clause 6 Parameter Set.)	
- CHOICE TFCI signalling	(This IE is repeated for TFC number.) Normal	
- TFCI Field 1 information	Normal	
- TFCS complete		
reconfigure information		
- CHOICE TFCS Size	Number of used bits must be enough to cover	
	all combinations of CTFC from clauses 6.	
	Refer to TS34.108 clause 6 Parameter Set	
- CTFC information	Not Present	
- CHOICE mode	TDD	
- Individual UL CCTrCH	Not Present	
information	Not Droppet	
Deleted TrCH information list	Not Present	
Added or Reconfigured UL TrCH information		
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- TFS		
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport format	'	
information		
- RLC size	According to TS34.108 clause 6 for standalone 13.6	
	kbps signalling radio bearer	
- Number of TBs and TTI lists	(This IE is repeated for TFI number)	
- CHOICE mode	TDD	
- Transmission Time Interval	According to TS34.108 clause 6 for standalone 13.6	
- CHOICE Logical channel list	kbps signalling radio bearer All	
- Semi-static Transport Format	All .	
information		
DL Transport channel information		
common for all transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	TDD	
-Individual DL CCTrCH information		
- DL TFCS Identity		
- TFCS ID	1	
- Shared Channel Indicator	Same as UL	
- CHOICE DL parameters Added or Reconfigured TrCH information	Jaille as UL	
list		
- Added or Reconfigured DL TrCH		
information		
- Downlink transport channel type	DCH	
 DL Transport channel identity 	10	
- CHOICE DL parameters	Same as UL	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
-DCH quality target	6.3	
- BLER Quality target	-6.3	
Frequency info Maximum allowed UL TX power	Not Present Not Present	
HOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info		
Opinik Di Ori power control illio		

Information Element	Value/remark	Version
- CHOICE mode	TDD	
- CHOICE TDD option	3.84 Mcps	
- UL target SIR	Reference to TS34.108 Parameter set	
- CHOICE mode	TDD	
- CHOICE UL OL PC info	Individually signalled	
- CHOICE TDD option	3.84 Mcps	
 Individual timeslot 	Not Present	
interference info		
 Individual timeslot interference 		
 DPCH Constant Value 		
 Primary CCPCH Tx Power 	Not Present	
- Time info		
 Activation time 	(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration	Infinite	
 Common timeslot info 		
- 2 _{nd} interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set	
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set	
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set	
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set	
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set	
- Uplink DPCH timeslots and	Default is to use the old timeslots and codes	
codes	(n = d=4=)	
- CPCH SET Info	(no data)	
Downlink information common for all		
radio links		
- Downlink DPCH info common for		
all RL	Material	
- Timing indicator	Maintain	
- CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control		
information - DPC mode	() (cingle)	
	0 (single)	
- CHOICE TOD option		
- CHOICE TDD option - Default DPCH Offset Value	3.84 Mcps (no data)	
- Default DPCH Offset Value Downlink information for each radio link	Not Present	
list		
- Downlink information for each radio link		
- Choice mode	TDD	
- Primary CCPCH info		
- CHOICE SyncCase	Sync Case 1	
- Timeslot	PCCPCH timeslot	
- Cell parameters ID	0	
- SCTD indicator	-	
- Downlink DPCH info for each RL		
- CHOICE mode	TDD	
- DL CCTrCH List		
- TFCS ID	1	
- Time info		
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256	
- Duration	infinite	
- Common timeslot info		
- 2 _{nd} interleaving mode	Reference to TS34.108	
- TFCI coding	TRUE	
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set	
- Repetition period	1	
- Repetition length	Empty	
- Downlink DPCH timeslots		
and codes		
- CHOICE more timeslots		
- CHOICE TDD option	3.84 Mcps	
- Timeslot number	The number of a downlink timeslot that has	
	unassigned codes in a frame.	
- Individual timeslot		
info		
- TFCI existence	TRUE	
- Midamble shift and		

Information Element	Value/remark	Version
burst type - CHOICE TDD option -CHOICE Burst Type -Type 1	3.84 Mcps	
-Midamble	Default	
Allocation Mode		
- Midamble configuration burst type 1 and 3	As defined in 3GPP TS 25.221	
- 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.	
- CHOICE more timeslots	The presence of this IE depends upon whether the requirements of TS34.108 clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot	
- UL CCTrCH TPC List	Not Present	
-SCCPCH information for FACH	Not Present	

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD option)

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial UE	
•	Identity" in received RRC CONNECTION	
	REQUEST" message	
RRC transaction identifier	0	
Activation time	Not Present(Now)	
New U-RNTI	, ,	
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
New C-RNTI	Not Present	
RRC State Indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	9, Integer(39)	
Capability update requirement		
 UE radio access FDD capability 	FALSE	
update		
requirement		
 UE radio access 3.84 Mcps TDD 	FALSE	
capability		
update		
requirement		
 UE radio access 1.28 Mcps TDD 	TRUE	
capability		
update		
requirement		
 System specific capability update 	Not Present	
requirement list		
ode		
tion to setup list		

Information Element	Value/remark	Version
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	1	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	UM RLC	
 Transmission RLC discard 	Not Present	
 CHOICE Downlink RLC mode 	UM RLC	
- RB mapping info		
 Information for each multiplexing 	2 RBMuxOptions	
option		
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	DCH	
- UL Transport channel identity	5	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	1	
- Downlink RLC logical channel info	4	
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- DL HS-DSCH MAC-d flow identity - Logical channel identity	Not Present	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	1	
- CHOICE RLC size list	Explicit List	
- RLC size index	Reference to TS34.108 clause 6 Parameter Set	
- MAC logical channel priority	1	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
- DL HS-DSCH MAC-d flow identity	Not Present	
- Logical channel identity	1	
- Signalling RB information to setup	(AM DCCH for RRC)	
- RB identity	2	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard	l., _, .	
- CHOICE SDU discard mode	No Discard	
- MAX_DAT	15	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	1	
- Polling info	200	
- Timer_poll_prohibit	200	
- Timer_poll	200 Not present	
	Not present	

Information Element	Value/remark	Version
- Poll_SDU	1	
 Last transmission PDU poll 	TRUE	
 Last retransmission PDU poll 	TRUE	
- Poll_Window	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info		
 Timer_status_prohibit 	200	
- Timer_EPC	Not Present	
 Missing PDU indicator 	TRUE	
 Timer_STATUS_periodic 	Not Present	
- RB mapping info		
 Information for each multiplexing 	2 RBMuxOptions	
option		
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	DCH	
 UL Transport channel identity 	5	
 Logical channel identity 	2	
- CHOICE RLC size list	Configure	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
 Number of RLC logical channels 	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity		
- Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- DL HS-DSCH MAC-d flow identity	Not Present	
- Logical channel identity	2	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1 BACH	
- Uplink transport channel type	RACH Not Propert	
- UL Transport channel identity - Logical channel identity	Not Present 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	
- DL HS-DSCH MAC-d flow identity	Not Present	
- Logical channel identity	2	
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)	
- RB identity	3	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- CHOICE 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	l

Information Element	Value/remark	Version
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	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 	2 RBMuxOptions	
option	·	
 RLC logical channel mapping indicator 	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	3	
- CHOICE RLC size list	Configured	
 MAC logical channel priority 	3	
 Downlink RLC logical channel info 		
 Number of RLC logical channels 	1	
 Downlink transport channel type 	DCH	
 DL DCH Transport channel identity 		
 Transport channel identity 	10	
 DL DSCH Transport channel identity 	Not Present	
- DL HS-DSCH MAC-d flow identity	Not Present	
 Logical channel identity 	3	
- RLC logical channel mapping indicator	Not Present	
 Number of RLC logical channels 	1	
 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	
- DL HS-DSCH MAC-d flow identity	Not Present	
- Logical channel identity	(ANA DOCUL for NAC DT Low priority)	
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)	
- RB identity	4 BLC info	
- CHOICE RLC info type	RLC info AM RLC	
- CHOICE Uplink RLC mode - Transmission RLC discard	AIVI KLU	
- CHOICE SDU discard mode	No discard	
- CHOICE SDU discard mode - MAX_DAT	No discard	
- MAX_DAT - Transmission window size	128	
	500	
- Timer_RST		
- Max_RST	1	
- Polling info	200	
- Timer_poll_prohibit - Timer_poll	200	
- Poll PDU		
- FUII_FDU	Not present	

Information Element	Value/remark	Version
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
 Last retransmission PDU poll 	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
Receiving window size Downlink RLC status info	128	
- Downlink RLC status info - Timer_status_prohibit	200	
- Timer_Status_profilbit	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info	THOU TOOSIN	
- Information for each multiplexing	2 RBMuxOptions	
option		
- RLC logical channel mapping indicator	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	DCH	
- UL Transport channel identity	5	
- Logical channel identity	4	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	4	
- Downlink RLC logical channel info	1	
Number of RLC logical channels Downlink transport channel type	1 DCH	
- DL DCH Transport channel identity	DCIT	
- Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- DL HS-DSCH MAC-d flow identity	Not Present	
- Logical channel identity	4	
- RLC logical channel mapping indicator	Not Present	
 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 Performed to TS34 108 clause 6 Parameter Set	
- RLC size index - MAC logical channel priority	Reference to TS34.108 clause 6 Parameter Set 4	
- Downlink RLC logical channel info	¬	
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
- DL HS-DSCH MAC-d flow identity	Not Present	
- Logical channel identity	4	
- UL Transport channel information for all		
transport channels	N / B	
- PRACH TFCS	Not Present	
- CHOICE mode	TDD	
-Individual UL CCTrCH information - UL TFCS ID	(This IE is repeated for TFC number.)	
- OL TECS ID - TECS ID	(This is repeated for TFC humber.)	
- Shared Channel Indicator	FALSE	
- UL TFCS		
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 Information		
- CHOICE TFCS	Complete reconfiguration	
representation		
- TFCS complete		
reconfiguration information		
- CHOICE CTFC Size	Configured, Number of bits used must be	
	enough to cover all combinations of CTFC	
	from TS34.108 clause 6.11.5.4 Parameter	
	Set.	
- CTFC information	This IE is repeated for TFC numbers and	
	reference to TS34.108 clause 6.11.5.4	
•		. !

Information Element	Value/remark	Version
	Parameter Set	

Information Element	Value/remark	Version
- CTFC	Reference to TS34.108 clause 6.11.5.4	
	Parameter Set	
- Power offset		
Information	Commuted Coin Factors/The Last TEC !	
- CHOICE Gain	Computed Gain Factors(The last TFC is set	
- Reference TFC ID	to Signalled Gain Factors)	
- Releience TPC ID - CHOICE Gain	0, Integer(03)	
Factors	Signalled Gain Factors(Not Present if the CHOICE Gain Factors is set to	
	ComputedGain Factors)	
- CHOICE mode	TDD	
- Gain Factor d	15	
- Reference TFC ID	0, Integer (03)	
- CHOICE mode	TDD	
- TFC subset	Default value is the complete existing set of	
	transport format combinations	
 CHOICE Subset representation 	Allowed transport format combination list	
- Allowed Transport Format	0 to MaxTFCvalue-1 (MaxTFCValue is refer to	
combination	TS34.108 clause 6 Parameter Set.)	
- Transport format	Integer (0 1023)	
combination - TFC subset list	Not present	
- Added or Reconfigured UL TrCH information	Not present	
list		
- Added or Reconfigured UL TrCH		
information	l sou	
- Uplink transport channel type	DCH	
 UL Transport channel identity TFS 	5	
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport format information	Bodioatoa transport oriannolo	
- RLC size	According to TS34.108 clause 6 for standalone	
	13.6 kbps signalling radio bearer	
- Number of TBs and TTI lists	(This IE is repeated for TFI number)	
- Transmission Time Interval	Not Present	
- Number of Transport blocks	Reference to TS34.108 clause 6.11 Parameter Set	
- CHOICE Logical channel list	All	
- Semi-static Transport Format		
information		
- Transmission time interval	Reference to TS34.108 clause 6.11 Parameter	
Type of channel andire	Set	
- Type of channel coding	Reference to TS34.108 clause 6.11 Parameter Set	
- Coding Rate	Reference to TS34.108 clause 6.11 Parameter	
	Set	
- Rate matching attribute	Reference to TS34.108 clause 6.11 Parameter	
Di Tronggrant de la Constitución	Set	
DL Transport channel information common for		
all transport channel - SCCPCH TFCS	Not Present	
- SCCPCH TPCS - CHOICE mode	TDD	
-Individual DL CCTrCH information		
- DL TFCS Identity		
- TFCS ID	1	
- Shared Channel Indicator	FALSE	
- CHOICE DL parameters	Same as UL	
- Added or Reconfigured TrCH information list		
- Added or Reconfigured DL TrCH		
information		
 Downlink transport channel type 	DCH	
- DL Transport channel identity	10	
- CHOICE DL parameters	Same as UL	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	l l

Information Element	Value/remark	Version
-DCH quality target		10.0.0.
- BLER Quality target	-6.3	
Frequency info	Not Present	
Maximum allowed UL TX power	33dBm	,
HOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info	TDD	
- CHOICE mode - CHOICE <i>TDD option</i>	TDD 1.28 Mcps TDD	
- PRX _{PDPCHdes}	Reference to TS34.108 clause 6.11 Parameter set	
- CHOICE UL OL PC info	Individually signalled	
- CHOICE TDD option	1.28 Mcps TDD	
- TPC step size	1 dB	
- Primary CCPCH Tx Power	Not Present	
- CHOICE mode	TDD	
- Uplink Timing Advance Control		
- CHOICE Timing Advance	Enabled	
- CHOICE TDD option - Uplink synchronisation	1.28 Mcps TDD	
parameters		
- Uplink synchronisation step size	1	
- Uplink synchronisation	1	
frequency		
 Synchronisation parameters 	Not present	
- UL CCTrCH List		
- TFCS ID	1 Deal (44 - 00 horseter at 0.54D)	
- UL Target SIR	Real (-11 20 by step of 0.5dB) Reference to TS34.108 clause 6.11 Parameter	
	set.	
- Time info	301.	
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration	Infinite	
- Common timeslot info		
- 2 _{nd} interleaving mode	Reference to TS34.108 clause 6 Parameter Set	
- TFCI coding	Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set	
- Puncturing Limit - Repetition Period	Reference to 1534.106 clause 6 Parameter Set	
- Repetition Length	null	
- Uplink DPCH timeslots and		
codes		
- Dynamic SF usage	FALSE	
- First individual timeslot info		
- Timeslot number	1 20 Mana TDD	
- CHOICE TDD option - Timeslot number	1.28 Mcps TDD 1 OR 2 OR 3	
- TFCI existence	TRUE	
Midamble shift and burst type		
- CHOICE TDD option	1.28 Mcps TDD	
- Midamble allocation mode	Default midamble	
- Midamble configuration	16	
- Midamble Shift - CHOICE TDD option	Not Present	
- Modulation	1.28 Mcps TDD QPSK	
- SS-TPC Symbols	1	
- Additional TPC-SS Sysbols	Not present	
- First timeslot Code List	Repeated (1,2) for each channelisation code	
	assigned in the slot to meet the needs of	
ala auro a tiana tiana and a	TS34.108 clause 6 Parameter Set.	
- channelisation codes	(SF/ i) where i denotes an unassigned code	
	matching the SF specified in TS34.108 clause 6 Parameter Set.	
- CHOICE more timeslots	No more timeslots	
- UL CCTrCH List to Remove	Not present	
Downlink information common for all radio	1	
links		
- Downlink DPCH info common for all RL		
- Timing indication	Initialize	
- CFN-targetSFN frame offset	Not Present	

Information Element	Value/remark	Version
- Downlink DPCH power control		
information		
- CHOICE mode	TDD	
- TPC Step Size	1 dB	
 MAC-d HFN initial value 	Not Present	
- CHOICE mode	TDD (no data)	
- CHOICE mode	TDD `	
- CHOICE TDD option	1.28 Mcps TDD	
- TSTD indicator	FALSE	
 Default DPCH Offset Value 	Not Present	
Downlink information for each radio link list		
- Downlink information for each radio link		
- Choice mode	TDD	
- Primary CCPCH info		
- CHOICE mode	TDD	
- CHOICE TDD option	1.28 Mcps TDD	
- TSTD indicator	FALSE	
- Cell parameters ID	Not present	
- SCTD indicator	FALSE	
 Downlink DPCH info for each RL 		
- CHOICE mode	TDD	
- DL CCTrCH List		
- TFCS ID	1	
- Time info		
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256	
- Duration	infinite	
- Common timeslot info		
- 2 _{nd} interleaving mode	Reference to TS34.108 clause 6.11 Parameter set	
- TFCI coding	Reference to TS34.108 clause 6.11 Parameter set	
- Puncturing limit	Reference to TS34.108 clause 6.11 Parameter set	
- Repetition period - Repetition length	1 NULL	
- Downlink DPCH timeslots and	NOLL	
codes		
- First Individual timeslot info		
- Timeslot number		
- CHOICE more timeslots		
- CHOICE TDD option	1.28 McpsTDD	
'		
- Timeslot number	4 OR 5 OR 6	
 Individual timeslot info 		
- TFCI existence	TRUE	
 Midamble shift and burst 		
type		
- CHOICE TDD option	1.28 Mcps TDD	
-Midamble Allocation	Default	
Mode	101.4 (0.4.0.0.40.40.40.40.40.	
- Midamble	16 Integer(2, 4, 6, 8, 10, 12, 14, 16)	
configuration	Not propert	
- Midamble Shift	Not present	
- CHOICE TDD option	1.28 Mcps TDD	
- Modulation - SS-TPC Symbols	QPSK	
- SS-TPC Symbols - Additional TPC-SS	Not present	
Symbols	Νοι ρισσσιι	
- First timeslot channelisation		
codes		
- CHOICE codes	Consecutive codes	
representation		
- First channelisation code	(i/SF) where i is the lowest numbered code	
	that is being assigned and SF is specified in	
	TS34.108 clause 6 Parameter Set	
- 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	

Information Element	Value/remark	Version
	have been assigned in the first timeslot	
- UL CCTrCH TPC List		
- UL TPC TFCS Identity	1	
- DL CCTrCH List to Remove	Not present	
-SCCPCH information for FACH	Not Present	

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_FACH) (1.28 Mcps TDD)

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial	
•	UE Identity" in received RRC CONNECTION	
	REQUEST" message	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Activation time	Not Present(Now)	
New U-RNTI	,	
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
New C-RNTI	Not Present	
RRC State Indicator	CELL_FACH	
UTRAN DRX cycle length coefficient	9 , Integer(39)	
Capability update requirement	o, mogor(omo)	
DD capability update requirement		
3.84 Mcps TDD capability update requirement		
.28 Mcps TDD capability update requirement		
apability update requirement list		
ode		
tion to setup list		
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	1	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard	Not Present	
- CHOICE Downlink RLC mode	UM RLC	
- RB mapping info	OWINE	
Information for each multiplexing option	1 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	1	
- CHOICE RLC size list	Explicit List	
- RLC size index	Reference to TS34.108 clause 6 Parameter	
- INLO SIZO IIIUGA	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 DCH Transport channel identity - DL DSCH Transport channel identity	Not Present	
- DL DSCH Transport charmer identity - DL HS-DSCH MAC-d flow identity		
•	Not Present	
- Logical channel identity		
- Signalling RB information to setup	(AM DCCH for RRC)	
- RB identity	2 BLC info	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard	No Disposed	
- CHOICE SDU discard mode	No Discard	
MAX_DAT	15	
 Transmission window size 	128	

- Timer_RST - Max_RST - Polling info - Timer poll prohibit - Timer poll prohibit - Timer poll prohibit - Timer poll prohibit - Timer_poll prohibit - Last treatmentission PDU poll - Last treatmentission PDU poll - Poll_Window - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_EFC - Missing PDU Indicator - Timer_ETSTATUS periodic - RB mapping info - RLC logical channel apping indicator - Number of RLC logical channels - Dullink transport channel lope - Logical channel mapping indicator - Number of RLC logical channels - Downlink transport channel priority - Downlink RLC size list - RLC size index - MAC logical channel priority - Downlink transport channel lope - LOCH Transport channel loenity - DL DSCH Transport channel leenity - DL DSCH Transport channel identity - Transmission RLC diseard - CHOICE SDL disear	Information Element	Value/remark	Version
- Max, RST - Polling info - Timer_poll, prohibit - Timer_poll by poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Lust transmission PDU poll - Last transmission PDU poll - Foll Window - Timer - EPC - Missing PDU indicator - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receiving window size - Timer - STATUS. periodic - Receivi			
- Polling info - Timer_poll prohibit - Timer_poll prohibit - Timer_poll prohibit - Timer_poll prohibit - Last transmission PDU poll - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Massing PDU indicator - Timer_STATUS_periodic - Poll_Window - Timer_STATUS_periodic - Poll_Window - Poll_CCE_RLC size isi - RLC size index - MAC logical channel mapping indicator - Number of RLC logical channel priority - Downlink RLC logical channel priority - Downlink RLC logical channel identity - DL DCH Transport channel type - DL DCH Transport channel type - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL DCH Transport channel identity - DL HS-DSCH MAC-of flow identity - DL HS-DSCH MAC-of flow identity - Signalling RB information to setup - RB identity - HB identity			
- Timer, poll, prohibit - Timer poll - Poll, SDU - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Poll, Window - Timer, poll, periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC stust info - Timer, StaTuS_periodic - Most present - Missing PDU indicator - Timer, StaTuS_periodic - Poll, Colgical channel mapping indicator - RLC logical channel mapping indicator - RLC logical channel mapping indicator - RLC logical channel remains - Uplink transport channel ldentity - Logical channel elentity - Logical channel remains - Downlink transport channel info - Number of RLC logical channels - Downlink transport channel info - Number of RLC logical channels - Downlink transport channel info - Number of RLC logical channels - Downlink transport channel info - Number of RLC logical channel info - Holice RLC info type - CHOICE RLC info type - CHOICE SDU diseard mode - HAX DAT - Transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Recoiving window size - Timer, STATUS_periodic - Recoiving window s		'	
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- Logical channel identity - Signalling RB information to setup - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Last transmission PDU poll - Last transmission PDU poll - Last tretransmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_sTATUS_periodic - RB mapping info - Information for each multiplexing option 2 (AM DCCH for NAS_DT High priority) 3 RLC info AM RLC - Information to setup 3 RLC info AM RLC - Information to setup 3 RLC info AM RLC - Information for each multiplexing option 2 (AM DCCH for NAS_DT High priority) 3 RLC info AM RLC - Information to setup 3 RLC info AM RLC - Information for each multiplexing option 2 (AM DCCH for NAS_DT High priority) 3 RLC info AM RLC - Information to setup 3 RLC info AM RLC - Information for each multiplexing option 2 (AM DCCH for NAS_DT High priority) 3 RLC info AM RLC - Information to setup 3 RLC info AM RLC - Information for each multiplexing option 3 RLC info AM RLC - Information for each multiplexing option 4 RUC - Information for each multiplexing option 5 (AM RLC - Information for each multiplexing option	 DL DSCH Transport channel identity 	Not Present	
- Signalling ŘB information to setup - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Last transmission PDU poll - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit	- DL HS-DSCH MAC-d flow identity	Not Present	
- Signalling ŘB information to setup - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Last transmission PDU poll - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit	- Logical channel identity	2	
- RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll	- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)	
- CHOICE RLC info type		T 1 T 1	
- CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_SDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - TRBMuxOptions		RLC info	
- Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll			
- CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option No Discard 15 128 No Discard 15 128 128 200 TRUE TRUE TRUE 128 Not Present AM RLC TRUE 128 Volume 128 Not Present TRUE Not Present TRUE Not Present TRUE Not Present			
- MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_SDU - Last transmission PDU poll - Last tretransmission PDU poll - Poll_Window - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 1 1 - 128 - 200 - TRUE - 200 - TRUE - TRUE - 128 -		No Discard	
- Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 1 1 - C200 - TRUE - TRUE - TRUE - TRUE - 128 - 500 - TRUE - TRUE - TRUE - TRUE - 200 - Not Present - TRUE - Not Present - Not Present - TRUE - TRUE - T			
- Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Poll_Periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 1 1 200 1 TRUE TRUE - MARLC TRUE - MORE POLITION TRUE - 200 Not Present - TRUE - Not Present - TRUE - Not Present - RBMuxOptions			
- Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_SDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Last retransmission PDU poll - Poll_Window - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 1 RBMuxOptions			
- Polling info - Timer_poll_prohibit - Timer_poll - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 1 RBMuxOptions			
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- Timer_poll - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - Information for each multiplexing option 1 RBMuxOptions		200	
- Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 1 TRUE TRUE TRUE AM RLC TRUE 128 200 Not Present TRUE Not Present TRUE Not Present 1 RBMuxOptions			
- Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - Information for each multiplexing option TRUE TRUE TRUE TRUE 200 Not Present TRUE TRUE 128 128 128 128 128 128 128 12	- rimer_poli	200	
- Last transmission PDU poll - Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Missing PDU indicator - Timer_STATUS_periodic - Information for each multiplexing option TRUE TRUE TRUE TRUE 200 Not Present TRUE TRUE 128 128 128 128 128 128 128 12	Dall CDL		
- Last retransmission PDU poll - Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option TRUE 99 Not Present TRUE 128 200 Not Present TRUE Not Present TRUE Not Present 1 RBMuxOptions			
- Poll_Window - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 99 Not Present TRUE 200 Not Present TRUE Not Present TRUE Not Present 1 RBMuxOptions			
- Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option Not Present TRUE 200 Not Present TRUE Not Present 128	l •		
- CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option AM RLC TRUE 200 Not Present TRUE Not Present 1 RBMuxOptions			
- In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option TRUE 200 Not Present TRUE Not Present 1 RBMuxOptions			
- Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 128 200 Not Present TRUE Not Present 128			
- Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option - Downlink RLC status info 200 Not Present TRUE Not Present 1 RBMuxOptions			
- Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option 200 Not Present TRUE Not Present		128	
- Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option Not Present TRUE Not Present 1 RBMuxOptions			
- Missing PDU indicator - Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option TRUE Not Present 1 RBMuxOptions			
- Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option Not Present 1 RBMuxOptions			
- Timer_STATUS_periodic - RB mapping info - Information for each multiplexing option Not Present 1 RBMuxOptions		TRUE	
- RB mapping info - Information for each multiplexing option 1 RBMuxOptions		Not Present	
- Information for each multiplexing option 1 RBMuxOptions	- RB mapping info		
		1 RBMuxOptions	

Information Element	Value/remark	Version
- Number of RLC logical channels	1	·
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	3	
- CHOICE RLC size list	Explicit List	
- RLC size index	Reference to TS34.108 clause 6 Parameter	
	Set	
 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	
- DL HS-DSCH MAC-d flow identity	Not Present 3	
Logical channel identity Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)	
- RB identity	4	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- CHOICE SDU discard mode	No discard	
- MAX_DAT	15	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	1	
- Polling info		
 Timer_poll_prohibit 	200	
- Timer_poll	200	
Doll CDL		
- Poll_SDU	1 TRUE	
Last transmission PDU poll Last retransmission PDU poll	TRUE	
- Poll_Window	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info	4 DDM:Ortion	
- Information for each multiplexing option	1 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
 Number of RLC logical channels Uplink transport channel type 	1 RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	4	
- CHOICE RLC size list	Explicit List	
- RLC size index	Reference to TS34.108 clause 6 Parameter	
	Set	
- MAC logical channel priority	4	
- Downlink RLC logical channel info		
 Number of RLC logical channels 	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
- DL HS-DSCH MAC-d flow identity	Not Present	
- Logical channel identity	4	
- UL Transport channel information for all transport channels		
- PRACH TFCS	Not Present	
- CHOICE mode	TDD	
-Individual UL CCTrCH information	·	
- UL TFCS Identity		
- TFCS ID	1	
•	•	٠ '

Information Element	Value/remark	Version
- Shared Channel Indicator	FALSE	70.0.0
- UL TFCS		
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 Information		
 CHOICE TFCS representation 	Complete reconfiguration	
- TFCS complete reconfiguration		
information		
- CHOICE CTFC Size	Configured, Number of bits used must be	
	enough to cover all combinations of CTFC	
	from TS34.108 clause 6.11.5.4 Parameter	
OTEO information	Set.	
- CTFC information	This IE is repeated for TFC numbers and reference to TS34.108 clause 6.11.5.4	
	Parameter Set	
- CTFC	Reference to TS34.108 clause 6.11.5.4	
-0110	Parameter Set	
- Power offset Information	Taramotor Cot	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set	
S.1.5.15 _ 53 1 50.015	to Signalled Gain Factors)	
- Reference TFC ID	0, Integer(0 3)	
- CHOICE Gain Factors	Signalled Gain Factors(Not Present if the	
	CHOICE Gain Factors is set to	
	ComputedGain Factors)	
- CHOICE mode	TDD	
- Gain Factor d	15	
- Reference TFC ID	0, Integer (03)	
- CHOICE mode - TFC subset	TDD	
- TPC Subset	Default value is the complete existing set of transport format combinations	
- CHOICE Subset representation	Allowed transport format combination list	
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer	
Allowed Transport Torrida combination	to	
	TS34.108 clause 6 Parameter Set.)	
- Transport format combination	Integer (0 1023)	
- TFC subset list	Not present	
- Added or Reconfigured UL TrCH information list	Not present	
- DL Transport channel information common for all		
transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	TDD	
-Individual DL CCTrCH information		
- DL TFCS Identity	4	
- TFCS ID - Shared Channel Indicator	1 FALSE	
- CHOICE DL parameters	Same as UL	
- Added or Reconfigured TrCH information list	Not present	
Frequency info	Not Present	
Maximum allowed UL TX power	Default value is the existing maximum UL TX	
	power	,
CHOICE channel requirement	Not present	
Downlink information common for all radio links	Not present	
Downlink information for each radio link list		
- Downlink information for each radio link - Choice mode	TDD	
- Choice mode - Primary CCPCH info	וטט	
- CHOICE mode	TDD	
- CHOICE TIDD option	1.28 Mcps TDD	
- TSTD indicator	False	
- Cell parameters ID	Not Present	
- SCTD indicator	False	
- Downlink DPCH info for each RL	Not Present	
- SCCPCH information for FACH	Not Present	
- SCUPCH 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	This IE is checked to see if it is present.
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of SECURITY MODE COMMAND message: AM

Information Element	Condition	Value/remark
Message Type	A1, A2	
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		
- Message authentication code		Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message Sequence Number		Set to an arbitrarily selected integer between 0 and 15
Security capability		
- Ciphering algorithm capability		
- UEA0 - UEA1		If ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE. If ciphering is indicated to be active on IXIT
		statements in TS 34.123-2, set this IE to TRUE.
- Spare		FALSE
 Integrity protection algorithm capability 		000000000000010B (UIA1)
- UIA1		TRUE
- Spare		FALSE
Ciphering mode info		This presence of this IE is dependent on IXIT
		statements in TS 34.123-2. If ciphering is
		indicated to be active, this IE present with the
		values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command		Start/restart
- Ciphering mode command - Ciphering algorithm		Use the same ciphering algorithm specified in
		"ciphering algorithm capability" IE in this
		message.
- Ciphering activation time for DPCH		Not Present
- Radio bearer downlink ciphering activation		
time info		
- Radio bearer activation time		
- RB identity		1 0
- RLC sequence number		Current RLC SN+2
- RB identity - RLC sequence number		Current RLC SN+2
- RB identity		3
- RLC sequence number		Current RLC SN + 2
- RB identity		4
- RLC sequence number		Current RLC SN + 2
Integrity protection mode info		
- Integrity protection mode command		Start
- Downlink integrity protection activation info		Not Present UIA1
Integrity protection algorithm Integrity protection initialisation number		SS selects an arbitrary 32 bits number for
integrity protection initialisation number		FRESH
CN domain identity		Supported domain
UE system specific security capability	A1	Not Checked
UE system specific security capability	A2	
 Inter-RAT UE security capability 		
- CHOICE system		GSM
- GSM security capability		The indicated algorithms must be the same as
		the algorithms supported by the UE as indicated
		in the IE " UE system specific capability " in the
		RRC CONNECTION SETUP COMPLETE
	Ì	message.

Condition	Explanation
A1	UE not supporting GSM
A2	UE supporting GSM

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.
Integrity check info	-
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in SECURITY MODE
	COMMAND message, this IE must be absent. Else, SS
	checks this IE for the presence of activation times for all
	ciphered uplink RLC-UM and RLC-AM RBs.

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
CN domain identity	Checked to see if set to supported CN domain as specified in the IXIT statements
NAS message	Set according to that indicated in specific message content clause
Measured results on RACH	Not checked

9.2 Default Message Contents for RF

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2kbps, the DL reference measurement channel for BTFD, UE test loop mode 1 without Dummy DCCH transmission and UE test loop mode 2 with Dummy DCCH transmission are set to default message contents.

9.2.1 Default Message Contents for RF (FDD)

Contents of Activate RB Test Mode message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	44h

Contents of Close UE Test Loop message (UE test loop mode 1 without Dummy DCCH transmission)

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

Contents of Close UE Test Loop message (UE test loop mode 2 without Dummy DCCH transmission)

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	01h

Contents of Open UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	42h

Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
 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 (UE supports CS RAB for Test Loop Mode1)

Information Element	Value/remark	Version
Message Type	Valuoroman	10101011
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Integrity check info	, ,	
- message authentication code	SS calculates the value of MAC-I for this message	
	and writes to this IE. The first/ leftmost bit of the bit	
	string contains the most significant bit of the MAC-	
DD0		
- RRC message sequence number	SS provides the value of this IE, from its internal counter.	
Integrity protection mode info	Not Present	
Ciphering mode info	Not Present	
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256	
New U-RNTI	Not Present	
New C-RNTI	Not Present	
New DSCH-RNTI	Not Present	
New H-RNTI	Not Present	REL-5
RRC State indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	Not Present Not Present	
CN information info URA identity	Not Present	
- Signalling RB information to setup	Not Present	
- RAB information for setup list	1.00.100011	
- RAB information for setup		
- RAB info		
- RAB identity	0000 0001B	
	The first/ leftmost bit of the bit string contains the	
011 1 11 11	most significant bit of the RAB identity.	
- CN domain identity - NAS Synchronization Indicator	CS domain Not Present	
- Re-establishment timer	UseT314	
- RB information to setup list	0361314	
- RB information to setup		
- RB identity	10	
- PDCP info	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	TM RLC	
- Transmission RLC discard - Segmentation indication	Not Present FALSE	
- CHOICE Downlink RLC mode	TM RLC	
- Segmentation indication	FALSE	
- RB mapping info	171202	
- Information for each multiplexing		
option		
- RLC logical channel mapping	Not Present	
indicator		
- Number of uplink RLC logical	1	
channels - Uplink transport channel type	DCH	
- UL Transport channel identity	1	
- Logical channel identity	Not Present	
- CHOICE RLC size list	Configured	
 MAC logical channel priority 	7	
- Downlink RLC logical channel info		
- Number of downlink RLC logical	1	
channels	DCH	
Downlink transport channel type DL DCH Transport channel identity	6	
- DL DSCH Transport channel	Not Present	
identity		
- Logical channel identity	Not Present	
RB information to be affected list	Not Present	
Downlink counter synchronisation info	Not Present	
UL Transport channel information for all		
transport channels	Not Propert	
- PRACH TFCS	Not Present	

Information Element	Value/remark	Version
- CHOICE mode	FDD	¥C131011
- 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	2 bit CTFC	
- CTFC information	4 TFCs	
- 2bit CTFC	0	
-Power offset Information		
- CHOICE Gain Factors	Computed Gain Factors	
- Reference TFC ID	0	
- CHOICE mode	FDD Not Droppet	
- Power offset P _{p-m} - 2bit CTFC	Not Present 2	
- Power offset Information	2	
- CHOICE Gain Factors	Computed Gain Factors	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset P _{p-m}	Not Present	
- 2bit CTFC	1	
- Power offset Information		
- CHOICE Gain Factors	Computed Gain Factors	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset P _{p-m}	Not Present	
- 2bit CTFC - Power offset Information	3	
- CHOICE Gain Factors	Signalled Gain Factors	
- CHOICE Gain ractors	FDD	
- Gain factor &c	8	
- Gain factor ßd	15	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset P _{p-m}	Not Present	
Deleted UL TrCH information list	Not Present	
Added or Reconfigured UL TrCH information	1	
list - Added or Reconfigured UL TrCH		
information		
- Uplink transport channel type	DCH	
- UL Transport channel identity	1	
- TFS		
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport Format		
Information	044 54-	
- RLC size	244 bits	
- Number of TBs and TTI List - Transmission Time Interval	2 Not Present	
- Number of Transport blocks	0	
- Transmission Time Interval	Not Present	
- Number of Transport blocks	1	
- CHOICE Logical Channel List	ALL	
- Semi-static Transport Format		
Information		
- Transmission time interval	20	
- Type of channel coding	Convolutional	
- Coding Rate	1/3	
Rate matching attributeCRC size	256 16	
CHOICE mode	FDD	
- CPCH set ID	Not Present	
- Added or Reconfigured TrCH information	Not Present	
for DRAC list		
DL Transport channel information common		

Information Element	Value/remark	Version
for all transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	FDD	
- CHOICE DL parameters	Same as UL	
Deleted DL TrCH information list	Not Present	
Added or Reconfigured DL TrCH information	1	
list - Added or Reconfigured DL TrCH		
information		
- Downlink transport channel type	DCH	
- DL Transport channel identity	6	
- CHOICE DL parameters	Same as UL	
- Uplink transport channel type	DCH	
- UL TrCH identity	1	
- DCH quality target		
- BLER Quality value	-2.0	
Frequency info	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	DEL C
- Aack	Not Present	REL-5
- Anack	Not Present	REL-5
- Ack-Nack repetition factor - CHOICE mode	Not Present FDD	REL-5
- Scrambling code type	Long	
- Scrambling code type - Scrambling code number	0 (0 to 16777215)	
- Number of DPDCH	1	
- spreading factor	64	
- TFCI existence	TRUE	
- Number of FBI bit	Not Present(0)	
- Puncturing Limit	1	
CHOICE Mode	FDD	
- Downlink PDSCH information	Not Present	
Downlink HS-PDSCH Information	Not Present	REL-5
Downlink information common for all radio		
links		
- Downlink DPCH info common for all		
RL Timing in diseases	Maintain	
- Timing indicator	Maintain	
- CFN-targetSFN frame offset - Downlink DPCH power control	Not Present	
information		
- CHOICE mode	FDD	
- DPC mode	0 (single)	
- CHOICE mode	FDD	
- Power offset P _{Pilot-DPDCH}	0	
 DL rate matching restriction 	Not Present	
information		
- Spreading factor	128	
- Fixed or Flexible Position	Fixed	
- TFCI existence	TRUE	
- CHOICE SF	128	
- Number of bits for Pilot bits	8	
- CHOICE mode	FDD Not Present	
- DPCH compressed mode info	Not Present	
- TX Diversity mode - SSDT information	None Not Present	
- Default DPCH Offset Value	Not Present	
Downlink information per radio link list	NOTETIOSOFIE	
- Downlink information for each radio link		
- CHOICE mode	FDD	
	!	

Information Element	Value/remark	Version
- Primary CPICH info		
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"	
- PDSCH with SHO DCH info	Not Present	
 PDSCH code mapping 	Not Present	
 Downlink DPCH info for each RL 		
- CHOICE mode	FDD	
 Primary CPICH usage for channel estimation 	Primary CPICH may be used	
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400	
 Secondary CPICH info 	Not Present	
- DL channelisation code		
 Secondary scrambling code 	Not Present	
- Spreading factor	128	
- Code number	96	
 Scrambling code change 	No change	
 TPC combination index 	0	
 SSDT Cell Identity 	Not Present	
 Closed loop timing adjustment mode 	Not Present	
- SCCPCH information for FACH	Not Present	

Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)

Message Type RRC transaction identifier Integrity check info - message authentication code - RRC message sequence number Integrity protection mode info Ciphering mode info Ciphering mode info RACIVATION Interest Nature of MAC-I for this message and writes to this IE. The first' lettrost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the bit string contains the most significant bit of the MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the MAC-I. SS provides the value of MAC-I. SS provides the value of MAC-I for this message and writes to this IE. The first' lettrost bit of the MAC-I. SS provides the value of MAC-I. SS provides the value of MAC-I. SS provides the value of MAC-I. SS provides the value of MAC-I. SS provides the value of MAC-I. SS provides the value of MAC-I. SS provides the value of MAC-I. SS provides the value of MaC-I. SS provides the value of MaC-I. SS provides the value of MaC-I. SS provides the value of the bits string contains the most significant bit of the MAC-I. Not Present Not Pr	Information Element	Value/remark	Version
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- CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll - Poll_PDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohib			
- NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Last retransmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit	- CN domain identity		
- Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll poll - Poll_PDU - Last transmission PDU poll - Last tretransmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Timer_EPC - Value Sub			
- RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll prohibit - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Timer_status_prohibit - 200 - Timer_status_prohibit - 200 - Timer_status_prohibit - 200 - Timer_status_prohibit - 200 - Timer_status_prohibit - 200 - Timer_status_prohibit - 200 - Timer_status_prohibit - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present		useT315	
- PDCP infó - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Poll_SDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Timer_status_prohibit	 RB information to setup 		
- Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll_DU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Timer_status_prohibit - Timer_status_prohibit - 200 - Not Present - AM RLC - TRUE - Receiving window size - Downlink RLC status info - Timer_status_prohibit - 200 - Not Present - 200 - Not Present - 200 - TRUE - 200 -		20	
- Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Timer_status_prohibit - Timer_status_prohibit - Timer_poll prohibit - Timer_poll promode - Timer_poll promode - In-sequence delivery - Timer_status_prohibit - Timer_EPC - Not Present - CHOICE Downlink RLC status info - Timer_status_prohibit - 200 - Not Present - CHOICE Downlink RLC status info - Timer_status_prohibit - 200 - Not Present		EALOE	
- PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Poll_PDU - Poll_PDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - MAX_DAT - Transmission window size - Timer_poll		_	
- Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Timer_status_prohibit - CHOICE townlink RLC status info - Timer_EPC Not present RLC info AM RLC - In-sequence delivery - Compared to the form of the poll window - CHOICE Downlink RLC status info - Timer_status_prohibit - CHOICE Timer_status_prohibit - CHOICE Downlink RLC status info - Timer_EPC - Not Present		•	
- CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Polling info - Timer_poll_prohibit - Poll_PDU - Poll_PDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Timer_status_prohibit - CHOICE SDU discard - No Discard No Discard - 15 - 20 No Discard - 128 - 200 - 128 - 128 - No Discard			
- CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Poll_PDU - Poll_PDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - CHOICE Data status info - Timer_status_prohibit - Color discard - No Discard - 128 - No Discard - 128 - Downling info - No Discard - 128 - No Di			
- CHOICE SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Poll_PDU - Poll_PDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_EPC - No Discard 15 128 - 128 - No Discard 15 128 - 128 - 128 - 128 - 128 - 15 - 15 - 10 - 15 - 15 - 15 - 10 - 15 - 15 - 10 - 15 - 15 - 15 - 10 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15			
- MAX_DAT - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC 15 128 200 Not Present 15 128 128 128 128 128 128 128	- Transmission RLC discard		
Transmission window size Timer_RST Max_RST Polling info Timer_poll_prohibit Poll_PDU Poll_SDU Last transmission PDU poll Last retransmission PDU poll Poll_Windows Timer_poll_periodic CHOICE Downlink RLC mode In-sequence delivery Receiving window size Downlink RLC status info Timer_EPC 128 500 4 Volume Transmission PDU poll TRUE TRUE TRUE TRUE AM RLC TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE			
- Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Poll_PDU - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC 500 4 4 4 4 4 4 4 4 4 4 4 4 4	_		
- Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Not Present - AM RLC - TRUE - TRUE - 200 - TRUE - 128 - Downlink RLC status info - Timer_EPC - Not Present			
- Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Timer_sequence delivery - Timer_EPC - Not Present - 200 - Not Present - 200 - Not Present - 200 - Not Present			
- Timer_poll_prohibit - Timer_poll - 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_status_prohibit - Timer_EPC 200 Not Present TRUE AM RLC TRUE TRUE 128 200 Not Present		4	
- Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC Not Present AM RLC TRUE AM RLC TRUE 128		200	
- Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC Not Present AM RLC TRUE AM RLC TRUE 128			
- Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC 1 TRUE - Not Present - AM RLC - TRUE - 128 - Downlink RLC status info - Timer_status_prohibit - 200 - Not Present			
- Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Poll_Windows - 99 - Not Present - AM RLC - TRUE - TRUE - 128 - 200 - Not Present	- Poll_SDU		
- Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Not Present 99 Not Present AM RLC TRUE 128 128 200 Not Present			
- Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC Not Present AM RLC TRUE 128 200 Not Present			
- CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC AM RLC TRUE 128 200 Not Present			
- In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC TRUE 128 200 Not Present			
- Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC Not Present			
- Downlink RLC status info - Timer_status_prohibit 200 - Timer_EPC Not Present			
- Timer_status_prohibit 200 - Timer_EPC Not Present		120	
- Timer_EPC Not Present		200	
- Missing PDU Indicator TRUE	- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic Not Present		Not Present	
- RB mapping info			

Information Element	Value/remark	Version
- 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	1	
channels		
 Downlink transport channel type 	DCH	
- DL DCH Transport channel identity	6	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	Not Present	
- RLC logical channel mapping indicator	Not Present	
- Number of uplink RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	7 Explicit list	
- CHOICE RLC size list - RLC size index	Explicit list Reference to TS34.108 clause 6	
- RLC size index		
MAC logical channel priority	Parameter Set 8	
- MAC logical channel priority - Downlink RLC logical channel info	0	
- Number of downlink RLC logical	1	
channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	7	
RB information to be affected list	Not Present	
Downlink counter synchronisation info	Not Present	
UL Transport channel information for all	THOU TOOGHT	
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	Number of bits used must be enough to	
	cover all combinations of CTFC from	
	TS34.108 clause 6.10.2.4 Parameter Set.	
- CTFC information	This IE is repeated for TFC numbers and	
	reference to TS34.108 clause 6.10.2.4	
	Parameter Set	
- CTFC	Reference to TS34.108 clause 6.10.2.4	
	Parameter Set	
- Power offset information		
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is	
	set to Signalled Gain Factors)	
- Gain factor βc	11 (below 64 kbps)	
	9 (higher than 64 kbps) (Not Present if	
	the CHOICE Gain Factors is set to	
Onin forter Od	Computed Gain Factors)	
- Gain factor βd	(Not Droppet if the CHOICE Coin Footors	
	(Not Present if the CHOICE Gain Factors	
- Reference TFC ID	is set to Computed Gain Factors)	
- Reference FFC ID - CHOICE mode	0 FDD	
- CHOICE mode - Power offset P p-m	Not Present	
Deleted UL TrCH information list	Not Present Not Present	
Added or Reconfigured UL TrCH information list	1	

Information Element	Value/remark	Version
Added or Reconfigured UL TrCH information	1 DCH added, 1 DCH reconfigured	2.2.2.
 Uplink transport channel type 	DCH	
- UL Transport channel identity	1	
- TFS - CHOICE Transport channel type	Dedicated transport shappels	
- Dynamic Transport Granner 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	
- CHOICE Logical Channel list	Parameter Set	
- Semi-static Transport Format information	7 11	
- Transmission time interval	Reference to TS34.108 clause 6.10	
	Parameter Set	
 Type of channel coding 	Reference to TS34.108 clause 6.10	
Coding Rate	Parameter Set Reference to TS34.108 clause 6.10	
- Coding Rate	Parameter Set	
- Rate matching attribute	Reference to TS34.108 clause 6.10	
_	Parameter Set	
- CRC size	Reference to TS34.108 clause 6.10	
	Parameter Set	
- Uplink transport channel type	DCH	
- UL Transport channel identity - TFS	5	
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport format information		
- RLC Size	Reference to TS34.108 clause 6.10	
N	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	
Trainbor of Trainbort blooks	Parameter Set	
- CHOICE Logical Channel list	All	
 Semi-static Transport Format information 		
- Transmission time interval	Reference to TS34.108 clause 6.10	
- Type of channel coding	Parameter Set Reference to TS34.108 clause 6.10	
- Type of charmer coding	Parameter Set	
- Coding Rate	Reference to TS34.108 clause 6.10	
, and the second	Parameter Set	
 Rate matching attribute 	Reference to TS34.108 clause 6.10	
ODC size	Parameter Set	
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set	
CHOICE mode	FDD	
- CPCH set ID	Not Present	
- Added or Reconfigured TrCH information for	Not Present	
DRAC list		
DL Transport channel information common for		
all transport channel - SCCPCH TFCS	Not Present	
- CHOICE mode	FDD	
- CHOICE DL parameters	Explicit	
- DL DCH TFCS	·	
- CHOICE TFCI Signalling	Normal	
- TFCI Field 1 Information	Complete recentions	
- CHOICE TFCS representation - TFCS complete reconfigure	Complete reconfiguration	
- CHOICE CTFC Size	Number of bits used must be enough to	
0.10.02 011 0 0120	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	

Information Element	Value/remark	Version
- CTFC	Reference to TS34.108 clause 6.10.2.4	1 2. 2. 2
	Parameter Set	
- Power offset information	Not Present	
Added or Reconfigured DL TrCH information list Added or Reconfigured DL TrCH information	1 2 TrCHs(DCH for DCCH and DCH for	
Added of Recornigured DE Troff Information	DTCH)	
- Downlink transport channel type	DCH	
- DL Transport channel identity	10	
- CHOICE DL parameters	Same as UL	
 Uplink transport channel type UL TrCH identity 	DCH 5	
- DC High Identity - DCH quality target	5	
- BLER Quality value	-2.0	
- 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	Dedicated transport channel	
- RLC Size	Reference to TS34.108 clause 6.10	
	Parameter Set	
- Number of TBs and TTI List	(This IE is repeated for TFI number.)	
- Dynamic transport format information	Net December	
- Transmission Time Interval	Not Present Reference to TS34.108 clause 6.10	
- Number of Transport blocks	Parameter Set	
- CHOICE Logical Channel list	All	
- Semi-static Transport Format information		
- Transmission time interval	Reference to TS34.108 clause 6.10	
Town of the sound on discussion	Parameter Set	
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set	
- Coding Rate	Reference to TS34.108 clause 6.10	
Journal Country	Parameter Set	
- Rate matching attribute	Reference to TS34.108 clause 6.10	
000 :	Parameter Set	
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set	
- DCH quality target	i alameter det	
- BLER Quality value	-2.0	
Frequency info	Not Present	
Maximum allowed UL TX power	33dBm	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info - CHOICE mode	FDD	
- DPCCH power offset	-6dB	
- PC Preamble	1 frame	
- SRB delay	7 frames	
- Power Control Algorithm	Algorithm1	
- TPC step size	1dB Not Present	REL-5
- Δack - Δnack	Not Present	REL-5
- Ack-Nack repetition factor	Not Present	REL-5
- CHOICE mode	FDD	
- Scrambling code type	Long	
- Scrambling code number	0 (0 to 16777215)	
- Number of DPDCH	1 64	
- spreading factor - TFCI existence	TRUE	
- Number of FBI bit	Not Present(0)	
- Puncturing Limit	1	
CHOICE Mode	FDD	
- Downlink PDSCH information	Not Present	55
Downlink HS-PDSCH Information Downlink information common for all radio links	Not Present	REL-5
- Downlink information common for all radio links - Downlink DPCH info common for all RL		
- Timing indicator	Maintain	
Tilling molecule		

Information Element	Value/remark	Version
- CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control		
information		
- CHOICE mode	FDD	
- DPC mode	0 (single)	
- CHOICE mode	FDD	
- Power offset Ppilot-DPDCH	0	
- DL rate matching restriction information	Not Present	
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set	
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set	
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set	
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set	
- CHOICE mode	FDD	
- DPCH compressed mode info	Not Present	
- TX Diversity mode	None	
- SSDT information	Not Present	
 Default DPCH Offset Value 	Not Present	
Downlink information per radio link list		
 Downlink information for each radio link 		
- CHOICE mode	FDD	
- Primary CPICH info		
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"	
- PDSCH with SHO DCH info	Not Present	
- PDSCH code mapping- Downlink DPCH info for each RL	Not Present	
- CHOICE mode	FDD	
Primary CPICH usage for channel estimation	Primary CPICH may be used	
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400	
- Secondary CPICH info	Not Present	
- DL channelisation code		
- Secondary scrambling code	Not present	
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set	
- Code number	Depends upon radio bearer used.	
- Scrambling code change	No change	
- TPC combination index	0	
- SSDT Cell Identity	Not Present	
 Closed loop timing adjustment mode 	Not Present	
- SCCPCH information for FACH	Not Present	

Contents of RADIO BEARER SETUP message: AM or UM (UE supports CS RAB for Test Loop Mode 2)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Integrity check info	and 5	
- message authentication code	SS calculates the value of MAC-I for this	
•	message and writes to this IE. The first/	
	leftmost bit of the bit string contains the	
	most significant bit of the MAC-I.	
- RRC message sequence number	SS provides the value of this IE, from its	
Integrity protection mode info	internal counter. Not Present	
Ciphering mode info	Not Present	
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256	
New U-RNTI	Not Present	
New C-RNTI	Not Present	
New DSCH-RNTI	Not Present	
New H-RNTI	Not Present	REL-5
RRC State indicator	CELL_DCH	
UTRAN DRX cycle length coefficient CN information info	Not Present Not Present	
URA identity	Not Present	
Signalling RB information to setup	Not Present	
RAB information for setup list		
- RAB information for setup		
- RAB info		
- RAB identity	0000 0001B	
	The first/ leftmost bit of the bit string	
	contains the most significant bit of the RAB identity.	
- CN domain identity	CS domain	
- NAS Synchronization Indicator	Not Present	
- Re-establishment timer	UseT314	
 RB information to setup list 		
- RB information to setup		
- RB identity	10	
- PDCP info- CHOICE RLC info type	Not Present RLC info	
- CHOICE REC IIII0 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		
- Information for each multiplexing option	Not Present	
 RLC logical channel mapping indicator 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	
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	
- PRACH TPCS - CHOICE mode	FDD	
- TFC subset	Not Present	
11 0 000001	110.1 1000III	ı

Information Element	Value/remark	Version
- UL DCH TFCS		
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information		
- CHOICE TFCS representation	Complete reconfiguration	
- TFCS complete reconfigure		
information		
- CHOICE CTFC Size	2 bit CTFC	
- CTFC information	4 TFCs	
- 2bit CTFC	0	
- Power offset Information		
- CHOICE Gain Factors	Computed Gain Factors	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset P _{p-m}	Not Present	
- 2bit CTFC	2	
- Power offset Information	0	
- CHOICE Gain Factors	Computed Gain Factors	
- Reference TFC ID	0	
- CHOICE mode	FDD Not Present	
- Power offset P _{p-m} - 2bit CTFC	Not Present	
- 20it CTFC - Power offset Information	'	
	Computed Cain Factors	
- CHOICE Gain Factors - Reference TFC ID	Computed Gain Factors	
- CHOICE mode	FDD	
- Power offset P _{p-m}	Not Present	
- 2bit CTFC	3	
- Power offset Information	3	
- CHOICE Gain Factors	Signalled Gain Factors	
- CHOICE mode	FDD	
- Gain factor ßc	8	
- Gain factor ßd	15	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset P _{p-m}	Not Present	
Deleted UL TrCH information list	Not Present	
Added or Reconfigured UL TrCH information list	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	260 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	20	
- Transmission time interval	20 Convolutional	
- Type of channel coding	Convolutional	
- Coding Rate	1/3 256	
- Rate matching attribute	256	
- CRC size CHOICE mode	FDD	
- CPCH set ID	Not Present	
- Added or Reconfigured TrCH information for	Not Present	
DRAC list	NOUT TESETIL	
DL Transport channel information common for		
all transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	FDD	
- CHOICE DL parameters	Same as UL	
Deleted DL TrCH information list	Not Present	Į.
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Information Element	Value/remark	Version
Added or Reconfigured DL TrCH information list	1	
- Added or Reconfigured DL TrCH		
information		
 Downlink transport channel type 	DCH	
- DL Transport channel identity	6	
- CHOICE DL parameters		
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport Format Information - RLC size	244 bits	
- Number of TBs and TTI List	2	
- Transmission Time Interval	Not Present	
- Number of Transport blocks	0	
- Transmission Time Interval	Not Present	
 Number of Transport blocks 	1	
- CHOICE Logical Channel List	ALL	
- Semi-static Transport Format Information		
- Transmission time interval	20 Convolutional	
- Type of channel coding - Coding Rate	Convolutional 1/3	
- Rate matching attribute	256	
- CRC size	16	
- Uplink transport channel type	DCH	
- UL TrCH identity	1	
- DCH quality target		
- BLER Quality value	-2.0	
Frequency info	Not Present	
Maximum allowed UL TX power	33dBm	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info - CHOICE mode	FDD	
- DPCCH power offset	-6dB	
- PC Preamble	1 frame	
- SRB delay	7 frames	
- Power Control Algorithm	Algorithm1	
- TPC step size	1dB	
- Δ _{ACK}	Not Present	REL-5
- Δnack	Not Present	REL-5
- Ack-Nack repetition factor	Not Present	REL-5
- CHOICE mode	FDD	
- Scrambling code type	Long	
- Scrambling code number - Number of DPDCH	0 (0 to 16777215)	
- spreading factor	64	
- TFCI existence	TRUE	
- Number of FBI bit	Not Present(0)	
- Puncturing Limit	1	
CHOICE Mode	FDD	
- Downlink PDSCH information	Not Present	551 -
Downlink HS-PDSCH Information	Not Present	REL-5
Downlink information common for all radio links - Downlink DPCH info common for all RL		
- Downlink DPCH into common for all RL - Timing indicator	Maintain	
- Timing indicator - CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control	THE THOUSE	
information		
- CHOICE mode	FDD	
- DPC mode	0 (single)	
- CHOICE mode	FDD	
- Power offset Ppilot-DPDCH	0 Not Drocont	
- DL rate matching restriction information	Not Present	
- Spreading factor - Fixed or Flexible Position	128 Fixed	
- Fixed of Flexible Position - TFCI existence	TRUE	
- CHOICE SF	128	
- Number of bits for Pilot bits	8	
- CHOICE mode	FDD	
- DPCH compressed mode info	Not Present	

Information Element	Value/remark	Version
- TX Diversity mode	None	
- SSDT information	Not Present	
- Default DPCH Offset Value	Not Present	
Downlink information for per radio link list		
- Downlink information for each radio link		
- CHOICE mode	FDD	
- Primary CPICH info		
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"	
- PDSCH with SHO DCH info	Not Present	
- PDSCH code mapping	Not Present	
- Downlink DPCH info for each RL		
- CHOICE mode	FDD	
 Primary CPICH usage for channel 	Primary CPICH may be used	
estimation		
- DPCH frame offset	Set to value Default DPCH Offset Value	
	(as currently stored in SS) mod 38400	
- Secondary CPICH info	Not Present	
- DL channelisation code		
- Secondary scrambling code	Not Present	
- Spreading factor	128	
- Code number	96	
- 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 (HSDPA)

Information Element	Value/remark	Version
Message Type		
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Integrity check info	OO aslandatas da a value of MAO I for this research	
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit	
	string contains the most significant bit of the MAC-	
	I.	
- RRC message sequence number	SS provides the value of this IE, from its internal	
	counter.	
Integrity protection mode info	Not Present	
Ciphering mode info Activation time	Not Present Not Present	
New U-RNTI	Not Present	
New C-RNTI	Not Present	
New DSCH-RNTI	Not Present	
New H-RNTI	"1010 1010 1010 1010"	REL-5
RRC State indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	Not Present Not Present	
CN information info URA identity	Not Present	
Signalling RB information to setup	Not Present	
RAB information for setup list		
- RAB information for setup		
- RAB info	(high-speed AM DTCH for PS domain)	
- RAB identity	0000 0110B	
	The first/ leftmost bit of the bit string contains the	
- CN domain identity	most significant bit of the RAB identity. PS domain	
- NAS Synchronization Indicator	Not Present	
- Re-establishment timer	UseT315	
- RB information to setup		
- RB identity	23	
- PDCP info	EALCE	
 Support for lossless SRNS relocation Max PDCP SN window size 	FALSE 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 Dispord	
- CHOICE SDU discard mode - MAX_DAT	No Discard	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	4	
- Polling info		
- Timer_poll_prohibit	100	
- Timer_poll - 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 - In-sequence delivery	AM RLC TRUE	
- Receiving window size	768	
- Downlink RLC status info		
- Timer_status_prohibit	100	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE Not Present	
- Timer_STATUS_periodic - RB mapping info	Not Present	
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
5	•	. '

Information Element	Value/remark	Version
- Number of uplink RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	1	
- Logical channel identity	Not Present	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	8	
- Downlink RLC logical channel info	l °	
- Number of downlink RLC logical channels	1	
- Downlink transport channel type	HS-DSCH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
- DL HS-DSCH MAC-d flow identity	0 Not Decorate	
- 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	7	
RB information to be affected list	Not Present	
Downlink counter synchronisation info	Not Present	
UL Transport channel information for all transport	Not i resent	
channels		
- PRACH TFCS	Not Present	
- CHOICE mode	FDD Not December	
- 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 Parameter	
	Set	
- CTFC	Reference to TS34.108 clause 6.10.2.4 Parameter	
	Set	
- Power offset information		
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to	
0.10.02 dan 1 dotto	Signalled Gain Factors)	
- Gain factor βc	11 (below 64 kbps)	
- Gain factor pc	9 (higher than 64 kbps) (Not Present if the	
	CHOICE Gain Factors is set to Computed Gain	
	-	
Cain factor Od	Factors)	
- Gain factor βd	15	
	(Not Present if the CHOICE Gain Factors is set to	
D (TEC :-	Computed Gain Factors)	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset P p-m	Not Present	
Deleted UL TrCH information list	Not Present	<u> </u>
Added or Reconfigured UL TrCH information list	1	
Added or Reconfigured UL TrCH information	1 DCH added, 1 DCH reconfigured	
- Uplink transport channel type	DCH	
- UL Transport channel identity	1	
- TFS		
- CHOICE Transport channel type	Dedicated transport channels	
		1

Information Element	Value/remark	Version
- Dynamic Transport format information		
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set	
- Number of TBs and TTI List	(This IE is repeated for TFI number.)	
- Transmission Time Interval	Not Present	
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set	
- CHOICE Logical Channel list	All	
- Semi-static Transport Format information		
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set	
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set	
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set	
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- TFS		
- CHOICE Transport channel type - Dynamic Transport format information	Dedicated transport channels	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set	
- Number of TBs and TTI List	(This IE is repeated for TFI number.)	
- Transmission Time Interval	Not Present	
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter	
Trainibor or Trainiport blooks	Set	
- CHOICE Logical Channel list	All	
- Semi-static Transport Format information		
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter	
- Type of channel coding	Set Reference to TS34.108 clause 6.10 Parameter	
	Set	
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set	
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set	
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set	
CHOICE mode	FDD	
- CPCH set ID	Not Present	
- Added or Reconfigured TrCH information for DRAC	Not Present	
list		
DL Transport channel information common for all		
transport channel	N . B	
- SCCPCH TFCS	Not Present	
- CHOICE mode	FDD Evaluate	
- CHOICE DL parameters	Explicit	
- DL DCH TFCS - CHOICE TFCI Signalling	Normal	
- TFCI Field 1 Information	INOTHIA	
- CHOICE TFCS representation	Complete reconfiguration	
- TFCS complete reconfigure	- Complete reconliguration	
- CHOICE CTFC Size	Number of bits used must be enough to cover all combinations of CTFC from clause TS34.108	
	clause 6.10.2.4 Parameter Set.	
- CTFC information	This IE is repeated for TFC numbers and	
- OTT O IIIIOIIIIauoII	reference to TS34.108 clause 6.10.2.4	
- CTFC	Reference to TS34.108 clause 6.10.2.4 Parameter	
	Set	
- Power offset information	Not Present	
Deleted DL TrCH information	Not Present	1
Added or Reconfigured DL TrCH information list	1	
Added or Reconfigured DL TrCH information	2 TrCHs(DCH for DCCH and HS-DSCH for	
		_

DOWnlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel dentity - DCH quality target - BLER Quality value - Downlink transport channel dentity - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-ha squeue to dad or reconfigure list - MAC-d Flow identity - TI - MAC-ha swindow size - MAC-d PDU size info - MAC-ha squeue to delete list - DCH quality target - MAC-d PDU size info - MAC-ha squeue to delete list - DCH quality target - DCH quality target - PC Preamble - Uplink DPCH power control info - CHOICE mode - DPC (DR power offset - PC Preamble - SR deley - Ack-Nack repetition factor - CHOICE mode - Scrambling code type - Scrambling code type - Scrambling code type - Scrambling code type - Scrambling code type - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - FFC I existence - Downlink DPCH power control information - CHOICE mode - DPC mode - DPC mode - DPC mode - DPC mode - DPC mode - DPC mode - DPC mode - DPC mode - DPC mode - Power offset Prace procia - DP cannel matching restriction information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position	Information Element	Value/remark	Version
- DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel type - DL Transport channel identity - CHOICE DL parameters - Land Ind - Namber of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-d Prowled thinty - MAC-d Prowled thinty - MAC-d PDU size - MAC-d PDU size Info - MA		DTCH)	
- CHOICE DL parameters - Uplink transport channel type - UL Trich identity - DCH quality variue - BLER Quality variue - BLER Quality variue - Downlink transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigure MAC-4 flow - MAC-hs queue to add or reconfigure list - MAC-dr PDU size - MAC-d PDU size Info - MAC-dr squeue to delete list - DCH quality target - Power Control Algorithm - Uplink DPCH power control info - CHOICE mode - DCC Plower Gest - Ask-Nack repetition factor - CHOICE mode - Scrambling code lype - Scrambling code lype - Scrambling code lype - Scrambling code lype - Scrambling code lype - Number of DPDCH - spreading factor - TFCI existence - Number of PBD bit - Downlink DPC-H power control information - Spreading factor - Power offset Pre-common for all RL - Timing indicator - CPR-targetSPN frame offset - Downlink DPC-H power control information - Spreading factor - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for all RL - Timing indicator - Process offset Pre-common for			
- Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality varue - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARC Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-ds queue to add or reconfigure list - MAC-ds queue to dod or reconfigure list - MAC-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconfigure list - Mac-ds provided or reconstruction list lists -			
- UL TrCH identity - OCH quality variet - BLER Quality value - Downlink transport channel type - DU Transport channel identity - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue to add or reconfigure list - MAC-d Flow identity - T1 - MAC-d spule list - MAC-d spule list - MAC-d spule list - MAC-d spule list - MAC-hs value to add or reconfigure list - MAC-d spul size indo - MAC-d spul			
- DCH quality rarget - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-ha queue to add or reconfigure list - MAC-ha queue to add or reconfigure list - MAC-d PDU size - MAC-d PDU size linfo - MAC-d PDU size linfo - MAC-d PDU size linfo - MAC-d PDU size linfo - MAC-d PDU size linfo - MAC-ha queue to delete list - DCH quality target Frequency info Maximum allowed UL TX power - CHOICE Coment requirement - Uplink DPCH power control info - CHOICE mode - DPCCH power offset - Procenting Quality target - Procenti			
- BLER Quality value - Downlink Processes - Downlink Posch Information - Downlink Posch Information - Downlink Posch Information - CHOICE mode - Describle Posch Information - CHOICE mode - Downlink PDSCH information - CHOICE mode - Downlink		5	
- Downlink transport channel type - D. Transport channel type - D. Transport channel tentity - CHOICE DL parameters - HARC Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigure MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-d Flow identity - T1 - MAC-d PDU size Info - MAC-d PDU size index - MAC-h queue to delete list - MAC-h queue to delete list - DCH quality target Frequency info Maximum allowed UL TX power - CHOICE C mode - DPCCH power control info - CHOICE mode - Scrambling code hype - Scrambling hyper hyper hyper hyper hyper hyper hyper hyper hyper		2.0	
- DL Transport channel identity - CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-h queue to add or reconfigure list - MAC-h queue to add or reconfigure list - MAC-h queue to add or reconfigure list - MAC-h queue to add or reconfigure list - MAC-h queue lot - MAC-h queue lot - MAC-h poll size Info - MAC-h PDU size index - MAC-h PDU size index - MAC-h queue to delete list - DCH quelly larget - MAC-h queue to delete list - DCH quelly larget - PC Preamble - Uplink DPCH power control info - Uplink DPCH power offset - PC Preamble - SR8 delay - Power Control Algorithm - TFC step size - Aack - Aack-Nack repetition factor - CHOICE mode - Scrambling code number - Number of FBI bit - Puncturing Limit - CHOICE mode - Downlink PDSCH information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink pPCH power control information - CHOICE mode - Downlink pPCH power control information - CHOICE mode - Downlink pPCH power control information - CHOICE mode - Downlink pPCH power control information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position			Dol C
- CHOICE DL parameters - HARQ Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size info - MAC-d PDU size info - MAC-d PDU size info - MAC-d PDU size info - MAC-hs queue to delete list - D-H quality target - MAC-hs queue to delete list - D-H quality target - MAC-hs queue to delete list - D-H quality target - MAC-hs queue to delete list - D-H quality target - MAC-hs queue to delete list - D-H quality target - MAC-hs queue to delete list - D-H quality target - MAC-hs queue to delete list - D-H quality target - MAC-hs queue to delete list - D-H quality target - Mac-d PDU size info - MAC-d PDU size in			Kel-5
- HARQ Info - Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue to add or reconfigure list - MAC-hs queue to add or reconfigure list - MAC-h queue lod - MAC-h polusize linfo - MAC-d Flow Identity - T1 - MAC-h PDU size linfo - MAC-d PDU size linfo - MAC-d PDU size index - MAC-h queue to delete list - MAC-hs queue to delete list - DCH quality target - PC Preamble - DPC Plower control info - Uplink DPCH power control information - CHOICE mode - Scrambling code type - Scrambling co	- DL Hallsport Challier Identity		
- Number of Processes - CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue to add or reconfigure list - MAC-d Flow Identity - T1 - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size index - MAC-h queue to delete list - DCH qualify target - CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - AACK - AACK - AACK - ACK-hack repetition factor - CHOICE mode - Scrambling code number - Number of FBI bit - Puncturing Limit - CHOICE Mode - Downlink PDCH info common for all RL - Timing indicator - CHOICE Mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH info common for all RL - Timing indicator - CPN-targetSPN frame offset - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - Spreading factor - FIXEd or Flexible Position - FIXEd or Flexible Position - FIXEd or Flexible Position - TFCI existence - Fixed or Flexible Position - TFCI existence - Fixed or Flexible Position - TFCI existence - Fixed or Flexible Position - FIXEd or Flexible Position - FIXED - STA1-108 clause 6.10 Parameter - Set Reference to TS34.108 clause 6.10 Parameter		110 20011	Rel-5
- CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue ld - MAC-d splow leftity - T1 - MAC-d PDU size Info - MAC-d PDU size Info - MAC-d PDU size index - MAC-hs queue to delete list - MAC-hs queue to delete list - MAC-hs queue to delete list - MAC-hs queue to delete list - MAC-hs pulsize index - MAC-hs queue to delete list - DCH qualify target Frequency info Maximum allowed UL TX power CHOICE Channel requirement - Uplink DPCH power control info - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Δ _{ACK} - AΔKK - AΔKKAC - AΔKKAC - AΔKKAC - AΔKKAC - AMK-Nack repetition factor - CHOICE mode - Scrambling code number - Number of PDCH - spreading factor - TFCI existence - Number of PDCH - Spreading factor - TFCI existence - Number of PDCH - Downlink DPCH info common for all RL - Timing indicator - CHOICE mode - DOWnlink information common for all RL - Timing indicator - CHOICE mode - DPC mode - CHOICE mode - DPC mode - Power offset Poles-DPCH - Downlink DPCH power control information - CHOICE mode - DPC mode - Power offset Poles-DPCH - Downlink DPCH power control information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - Fixed or Flexible Position - Federance 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		Reference to TS34 121 [2] Annex C Fixed	TKCI O
- CHOICE Memory Partitioning - Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue to - MAC-d Flow Identity - TI - MAC-hs window size - MAC-d PDU size Info - MAC-h PDU size Info - MAC-h Squeue to delete list - DOH quality target - MAC-ha queue to delete list - DOH quality target - Frequency info - CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - DPC reamble - Scrambling code number - Number of PBDCH - Spreading factor - TFC1 existence - Number of PBDCH - Spreading factor - CHOICE Mode - Downlink PDSCH information - Downlink information common for all RL - Timing indicator - CHOICE mode - DPC mode - DPC mode - DPC mode - DPC mode - CHOICE mode - Downlink DPCH power control information - Spreading factor - CR-t-targetSFN frame offset - Downlink DPCH power control information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TFC1 existence - Not Present - Not Present - Maintain Not Present -			
- Added or reconfigured MAC-d flow - MAC-hs queue to add or reconfigure list - MAC-hs queue to - MAC-hs queue to - MAC-d Flow ldentity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-h PDU size info - MAC-h Squeue to delete list - MAC-h PDU size index - MAC-h Squeue to delete list - DCH quality target Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - AACK - ADACK - A	- CHOICE Memory Partitioning		
- MAC-hs queue to add or reconfigure list - MAC-d Flow Identity - T1 - MAC-hs window size - MAC-d PDU size Info - MAC-d PDU size Info - MAC-d PDU size info - MAC-d PDU size index - MAC-hs queue to delete list - DCH quality target Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - AACK - AACK - AACK - AACK - AACK - AACK - CACK-Nack repetition factor - CHOICE mode - Scrambling code number - Number of PBD bit - Puncturing Limit CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink DPCH power control information - CHOICE mode - Downlink DPCH power control information - CPN-targetSPN frame offset - Downlink DPCH power control information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - Number of Spanning pactor - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - TFCI existence - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - TFCI existence - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - TFCI existence - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - TFCI existence - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - Fixed PDU Flower Control Flexible Position - Fixed or Flexible Position - Fixed PDU Flower Control Flexible Position - Fixed PDU		• • •	
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Information Element	Value/remark	Version
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter	
	Set	
- CHOICE mode	FDD	
- DPCH compressed mode info	Not Present	
- TX Diversity mode	None	
- SSDT information	Not Present	
- Default DPCH Offset Value	Not Present	
Downlink HS-PDSCH Information		
- HS-SCCH Info		
- CHOICE mode	FDD	
- DL Scrambling Code		
- HS-SCCH Channelisation Code Information		
- HS-SCCH Channelisation Code	2	
 HS-SCCH Channelisation Code 	3	
- HS-SCCH Channelisation Code	6	
- HS-SCCH Channelisation Code	7	
- Measurement Feedback Info		
- CHOICE mode	FDD	
- POhsdsch	6 dB	Rel-5
- CQI Feedback cycle, k	2 ms	Rel-5
 CQI repetition factor 	1	Rel-5
- Δ_{CQI}	5 (corresponds to 0dB in relative power offset)	Rel-5
- CHOICE mode	FDD (no data)	
Downlink information per radio link list		
- Downlink information for each radio link		
- CHOICE mode	FDD	
- Primary CPICH info		
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"	
- PDSCH with SHO DCH info	Not Present	
- PDSCH code mapping	Not Present	
 Serving HS-DSCH radio link indicator 	TRUE	REL-5
- Downlink DPCH info for each RL		
- CHOICE mode	FDD	
 Primary CPICH usage for channel estimation 	Primary CPICH may be used	
- DPCH frame offset	Set to value Default DPCH Offset Value (as	
	currently stored in SS) mod 38400	
- Secondary CPICH info	Not Present	
- DL channelisation code		
 Secondary scrambling code 	Not present	
- Spreading factor	256	
- Code number	192	
 Scrambling code change 	No change	
- TPC combination index	0	
- SSDT Cell Identity	Not Present	
 Closed loop timing adjustment mode 	Not Present	
- SCCPCH information for FACH	Not Present	

Contents of RADIO BEARER SETUP message: BTFD RMC

Message Type Integrity check info - message authentication code - message suthentication code - RRC message sequence number Integrity protection mode info Ciphering mode info Ciphering mode info Ciphering adouting - Ciphering - C	Information Element	Value/remark	Version
Integrity check info - message authentication code - RRC message sequence number Integrity protection mode info Ciphering mode info Ciphering mode command - Ciphering algorithm - Ciphering algorithm - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info Activation time - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info Activation time - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info Activation time - New U-RNTI - New D-RNTI - New SCH-RNTI - New SCH-RNTI - New L-RNTI - New Sch-RNTI - New L-RNTI - New Sch-RNTI - New L-RNTI - Not Present - No	Message Type	Aubitrarily adjusts on interest between 0	
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- CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel info - Number of downlink RLC logical channels - Number of downlink RLC logical channels - Number of downlink RLC logical channels		Not Present	
- Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels Not Present 1 DCH 1 Not Present 1 Configured 1 Not Present 1 Configured 1			
- Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels FALSE TM RLC FALSE TM RL			
- CHÖICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels TM RLC FALSE Not Present 1 Not Present Configured 1			
- Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels FALSE Not Present 1 Not Present Configured 1 1 1 1 1 1 1 1 1 1 1 1 1			
- RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels			
- Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels		1 ALOL	
- RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channels - Number of downlink RLC logical channels			
- Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels 1 DCH 1 Not Present Configured 1 1 1 Not Present Configured 1		Not Present	
- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels DCH 1 Not Present Configured 1			
- Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels Not Present Configured 1 1	- Uplink transport channel type	DCH	
- CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels 1			
- MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels 1			
- Downlink RLC logical channel info - Number of downlink RLC logical channels			
- Number of downlink RLC logical channels 1		1	
		1	
I DOLI			
- DL DCH Transport channel identity 6			
- DL DSCH Transport channel identity - DL DSCH Transport channel identity Not Present			
- Logical channel identity Not Present			
RB information to be affected Not Present			

Information Element	Value/remark	Version
Downlink counter synchronisation info	Not Present	
•	RMC for BTFD	
UL Transport channel information for all transport channels		
- PRACH TFCS	Not Present	
- CHOICE mode	FDD	
- TFC subset	Not Present	
- UL DCH TFCS		
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information		
- CHOICE TFCS representation	Complete reconfiguration	
- TFCS complete reconfigure information	-4f-0D:4	
- CHOICE CTFC Size	ctfc6Bit	
- ctfc6Bit - ctfc6	22	
	0	
-powerOffsetInformation(OP)	ComputedCainEasters	
-gainFactorInformation - Reference TFC ID	ComputedGainFactors 0	
- ctfc6	11	
	11	
-powerOffsetInformation(OP) -gainFactorInformation	ComputedGainFactors	
- gain-actorniormation - Reference TFC ID	0	
- ctfc6	1	
- ctico -powerOffsetInformation(OP)	1	
-powerOnsettniormation(OP) -gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	0	
- ctfc6	12	
-powerOffsetInformation(OP)	12	
-gainFactorInformation	SignalledGainFactors	
-modeSpecificInfo	Fdd	
-fdd	i du	
- Gain factor ßc	8	
- Gain factor ßd	15	
- Reference TFC ID	0	
- ctfc6	2	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	0	
- ctfc6	13	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	0	
- ctfc6	3	
<pre>-powerOffsetInformation(OP)</pre>		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	0	
- ctfc6	14	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	0	
- ctfc6	4	
-powerOffsetInformation(OP)	0	
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	0	
- ctfc6	15	
-powerOffsetInformation(OP)	ComputedCoinFactors	
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	0	
- ctfc6	5	
-powerOffsetInformation(OP)	ComputedGainEasters	
-gainFactorInformation	ComputedGainFactors 0	
- Reference TFC ID - ctfc6	0 16	
- ctico -powerOffsetInformation(OP)	10	
-powerOnsettmormation(OP) -gainFactorInformation	ComputedGainFactors	
-yaiiii aoloiiiiloiiialioii	ComputedGaini actors	

Information Element	Value/remark	Version
- Reference TFC ID	0	Version
- ctfc6	6	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	1	
- ctfc6	17	
-powerOffsetInformation(OP)		
-gainFactorInformation	SignalledGainFactors	
-modeSpecificInfo	Fdd	
-fdd		
- Gain factor ßc	11	
- Gain factor ßd	15	
- Reference TFC ID - ctfc6	1 7	
- crico -powerOffsetInformation(OP)	1	
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	1	
- ctfc6	18	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	1	
- ctfc6	8	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	1	
- ctfc6	19	
-powerOffsetInformation(OP)	10 10 15	
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID - ctfc6	1 9	
- ctico -powerOffsetInformation(OP)	9	
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	1	
- ctfc6	20	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	1	
- ctfc6	10	
-powerOffsetInformation(OP)		
-gainFactorInformation	ComputedGainFactors	
- Reference TFC ID	1	
- ctfc6	21	
-powerOffsetInformation(OP)	Community of Coin Footows	
-gainFactorInformation - Reference TFC ID	ComputedGainFactors 1	
Added or Reconfigured UL TrCH information list	1	
- Added or Reconfigured UL TrCH information	<u> </u>	
- Uplink transport channel type	DCH	
- UL Transport channel identity	1	
- TFS		
- CHOICE Transport channel type	Dedicated transport channels	
-DedicatedDynamicTF-Info		
RLC size	256	
-numberOfTbSizeList		
-NumberOfTransportBlocks	Zero	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	216	
-numberOfTbSizeList	One	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List RLC size	171	
-numberOfTbSizeList	171	
-NumberOfTransportBlocks	One	
-Number Of Hallsportblocks	1 0/10	

Information Element	Value/remark	Version
- Choice Logical Channel List	ALL	Version
RLC size	160	
-numberOfTbSizeList	100	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	146	
-numberOfTbSizeList		
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	130	
-numberOfTbSizeList	0	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List RLC size	ALL 115	
-numberOfTbSizeList	115	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	107	
-numberOfTbSizeList	107	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	51	
-numberOfTbSizeList		
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	12	
-numberOfTbSizeList		
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
-Semistatic Transport Format Information		
-Transmission Time interval	20 ms	
-channelCodingType	Convolutional	
-convolutional	1/3	
- Rate matching attribute	256	
- CRC size	0	
DL Transport channel information common for all transport		
channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	FDD	
- CHOICE DL parameters	Explicit	
- DL DCH TFCS		
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information	Open late was affine mation	
- CHOICE TFCS representation	Complete reconfiguration	
- TFCS complete reconfigure information - CHOICE CTFC Size	Ctfc6Bit	
- ctfc6Bit	18	
- ctfc6	9	
- ctfc6	0	
- ctfc6	10	
- ctfc6	1	
- ctfc6	11	
- ctfc6	2	
- ctfc6	12	
- ctfc6	3	
- ctfc6	13	
- ctfc6	4	
- ctfc6 - ctfc6	14	
- ctfc6	15	
- ctic6	6	
- ctfc6	16	
0.100	1.0	

Information Element	Value/remark	Version
- ctfc6	7	10.0.0
- ctfc6	17	
- ctfc6	8	
Deleted DL TrCH information	Not Present	
Added or Reconfigured DL TrCH information list	1	
 Added or Reconfigured DL TrCH information 		
- Downlink transport channel type	DCH	
- DL Transport channel identity	6	
- CHOICE DL parameters	Explicit	
- TFS		
- CHOICE Transport channel type	Dedicated transport channels	
-DedicatedDynamicTF-Info	244	
RLC size -numberOfTbSizeList	244	
-NumberOfTransportBlocks	One	
	ALL	
- Choice Logical Channel List RLC size	204	
-numberOfTbSizeList	204	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	159	
-numberOfTbSizeList	1.55	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	148	
-numberOfTbSizeList	140	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	134	
-numberOfTbSizeList	101	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	118	
-numberOfTbSizeList	110	
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	103	
-numberOfTbSizeList		
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	95	
-numberOfTbSizeList		
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
RLC size	39	
-numberOfTbSizeList		
-NumberOfTransportBlocks	One	
- Choice Logical Channel List	ALL	
-Semistatic Transport Format Information		
-Transmission Time interval	20 ms	
-channelCodingType	Convolutional	
-convolutional	1/3	
- Rate matching attribute	256	
- CRC size	12	
- DCH quality target	2.0	
- BLER Quality value	-2.0	
- Transparent mode signalling info Frequency info	Not Present	
Maximum allowed UL TX power	Not Present 33 dBm	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info	Spillik Di Oli IIIIO	
- DPCCH power offset	-6	
DI OOTI power onset		

Information Element	Value/remark	Version
- PC Preamble	1 frame	
- SRB delay	7 frames	
- Power Control Algorithm	Algorithm1	
- TPC step size	1dB	
- Δ _{ACK}	Not Present	REL-5
- A _{NACK}	Not Present	REL-5
- Ack-Nack repetition factor	Not Present	REL-5
- Scrambling code type	Long	
- Scrambling code number	0	
- Number of DPDCH	1	
- spreading factor	64	
- TFCI existence	TRUE	
- Number of FBI bit	Not Present(0)	
- Puncturing Limit	1	
CHOICE Mode	FDD	
- Downlink PDSCH information	Not Present(0)	
Downlink HS-PDSCH Information	Not Present	REL-5
Downlink information common for all radio links		
- Downlink DPCH info common for all RL	FDD	
- Timing indicator	Maintain	
- CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control information		
- DPC mode	0 (single)	
- CHOICE mode	FDD	
- Power offset P _{Pilot-DPDCH}	0	
 DL rate matching restriction information 	Not Present	
- Spreading factor	128	
 Number of bits for Pilot bits(SF=128,256) 	4	
 Fixed or Flexible Position 	Fixed	
- TFCI existence	FALSE	
- DPCH compressed mode info	Not Present	
- TX Diversity mode	None	
- SSDT information	Not Present	
- Default DPCH Offset Value	Not Present	
Downlink information for each radio link list		
- Primary CPICH info		
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"	
- PDSCH with SHO DCH info	Not Present	
- PDSCH code mapping	Not Present	
- Downlink DPCH info for each RL		
- Primary CPICH usage for channel estimation	Primary CPICH may be used	
- DPCH frame offset	Set to value Default DPCH Offset Value	
	(as currently stored in SS) mod 38400	
- Secondary CPICH info	Not Present	
- DL channelisation code		
 Secondary scrambling code 	Not Present	
- Spreading factor	128	
- Code number	96	
- 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 RRC CONNECTION RELEASE message: UM

Information Element	Value/remark	Version
Message Type		
U-RNTĪ	This IE is set to the following value when the message is	R99, REL-4
	transmitted on the CCCH. When transmitted on DCCH, this	
ODNIC interaction	is absent.	
- SRNC identity - S-RNTI	0000 0000 0001B 0000 0000 0000 0000 0001B	
CHOICE identity type	This IE is set to the following value when the message is	REL-5
CHOICE Identity type	transmitted on the CCCH. When transmitted on DCCH, this	NEL-3
	is absent.	
- U-RNTI		
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
- Group identity	[FFS]	
- Group release	[FFS]	
information		
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Integrity check info	This IE is present when this message is transmitted on	
Managan	downlink DCCH. Else, this IE and the sub-IEs are omitted.	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string	
adinentication code	contains the most significant bit of the MAC-I.	
- RRC Message	SS provides the value of this IE, from its internal counter.	
sequence number	, , , , , , , , , , , , , , , , , , , ,	
N308	2 (for CELL_DCH state). Not Present (for UE in other	
	connected mode states).	
Release cause	Normal event	
Rplmn information	Not Present	

Contents of RRC CONNECTION SETUP message: UM

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE	
	"Initial UE Identity" in received 'RRC	
	CONNECTION REQUEST" message	
RRC transaction identifier	Arbitrarily selects an integer between 0	
	and 3	
Activation time	Not Present(Now)	
New U-RNTI		
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
New C-RNTI	Not Present	
RRC State Indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	9	
Capability update requirement		
- UE radio access FDD capability update requirement	TRUE	
- UE radio access TDD capability update requirement	FALSE	
- System specific capability update requirement list	GSM	
CHOICE specification mode	Complete specification	REL-5
- Complete specification		REL-5
- Signalling RB information to setup list	4 SRBs	
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard	Not Present	
- CHOICE Downlink RLC mode	UM RLC	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- 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	Explicit List	
- RLC size index	Reference to TS34.108 clause 6	
	Parameter Set	
- MAC logical channel priority	1	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
	1	
- Logical channel identity		

- Signalling RB information to setup RB idunity Logical channel identity Logical channel identity Logical channel mapping indicator RB idunity	Information Element	Value/remark	Version
- Rel identity - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission poll - Transmission poll - Transmission poll - Poll prohibit - Transmission poll - Transmission poll - Poll PDU - Poll SDU - Poll PDU - Poll SDU - Poll SDU - Last transmission PDU poll - Last transmission PDU poll - Last transmission PDU poll - Last retransmission PDU poll - Poll Poll - Poll Poll - Poll Poll - Poll Poll - Poll Poll - Poll Poll - Poll Poll - Poll Poll - Poll Poll - Poll			1 3.0.0.1
- CHOICE RLC infor type - RLC infor - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Poll_poll_prohibit - Poll_Poll_Poll_Poll_Poll - Poll_Poll_Poll_Poll - Poll_SDU - Last transmission PDU poll - Last transmission PDU poll - Poll_Windows - Poll_Windows - Poll_Windows - Poll_Windows - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Messing PDU indicator - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS periodic - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel lype - UL Transport channel lype - UL Transport channel lidentity - Downlink RLC logical channels - Downlink transport channel wipe - DL D.CH Transport channel info - Number of RLC logical channels - Downlink transport channel wipe - UL Transport channel info - Number of RLC logical channels - PLD in CH Transport channel wipe - UL Transport channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channel info - Number of RLC logical channels - PLO Discal channels - PLO Discal cha		,	
- RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Transmission window size - Polling info - Transmission window size - Polling info - Transmission PDU - Polling info - Transmission PDU - Polling DDU - Polling SDU -	•		
- Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Foling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Poll_PDU - Poll_SDU - Poll_PDU - Poll_SDU - Poll_PDU - Poll_SDU - Poll_PDU - Poll_SDU - TRUE - Last retransmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - 128 - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_STATUS_periodic - TIMERC - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel infore - Number of RLC logical channels - Downlink RLC logical channels - Downlink transport channel identity - Logical channel infore - Number of RLC logical channels - Downlink transport channel identity - DL DCH Transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Not Present			
- Transmission RLC discard - SDU discard mode - MAX_DAT - Transmission window size - Timer_RST - Foling info - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Timer_poll_prohibit - Poll_PDU - Poll_SDU - Poll_PDU - Poll_SDU - Poll_PDU - Poll_SDU - Poll_PDU - Poll_SDU - TRUE - Last retransmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - 128 - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_STATUS_periodic - TIMERC - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel infore - Number of RLC logical channels - Downlink RLC logical channels - Downlink transport channel identity - Logical channel infore - Number of RLC logical channels - Downlink transport channel identity - DL DCH Transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Uplink transport channel identity - Not Present	- CHOICE Uplink RLC mode	AM RLC	
MAX_DAT			
- Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll_prohibit - Poll_PDU - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last tretransmission PDU poll - Poll_Windows - Poll_Windows - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - Timer_status_prohibit - RB mapping info - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - CHOICE RLC size list - Downlink RLC logical channel info - Number of RLC logical channel - Downlink RLC spical channel - Downlink RLC spical ch	- SDU discard mode	No Discard	
- Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll	- MAX_DAT	15	
Max. RST	- Transmission window size	128	
- Polling info - Timer_poll_prohibit - Timer_poll	- Timer_RST	500	
- Timer_poll_prohibit 200 - Timer_poll 200 - Poll_PDU Not Present 1 - Poll_SDU 1 - Last transmission PDU poll TRUE 1 - Last transmission PDU poll TRUE 90 - Poll_Windows 99 - Timer_poll_periodic Not Present 4 - CHOICE Downlink RLC mode AM RLC TRUE 128 - Downlink RLC status info 128 - Timer_EPC Not Present 200 - Timer_EPC Not Present 128 - Receiving window size 228 - Ramapping info 128 - Information for each multiplexing option 2 RBMuxOptions Not Present 128 - Receiving window 128 - Ramapping info 128 - Information for each multiplexing option 2 RBMuxOptions 128 - RUL Transport channel identity 10 RBMuxOptions 128 - RUL Transport channel identity 10 RBMuxDeptions 128 - RUL Transport channel identity 128 - RUL Transport channel identity 128 - RUL Transport channel identity 128 - RUL Tr	- Max_RST	1	
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- UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL DSCH Transport channel identity - Not Present Not Present Explicit List - Explicit List - Reference to TS34.108 clause 6 - Parameter Set 2 - Parameter Set - Parameter Set - Parameter Set - Parameter Set - Number of RLC logical channel info - Number of RLC logical channel info - Number of RLC logical channel identity - Not Present - Not Present	•	RACH	
- Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - CHOICE RLC size list Explicit List Reference to TS34.108 clause 6 Parameter Set 2 - Parameter Set 1 - Number of RLC logical channel info - Number of RLC logical channels 1 - Not Present Not Present			
- CHOICE RLC size list - RLC size index Reference to TS34.108 clause 6 Parameter Set - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity Not Present	· · · · · · · · · · · · · · · · · · ·		
- RLC size index Reference to TS34.108 clause 6 Parameter Set - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity Not Present	· · · · · · · · · · · · · · · · · · ·	Explicit List	
- Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity Not Present Not Present		Reference to TS34.108 clause 6	
- Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity Not Present Not Present	- MAC logical channel priority	2	
- Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity Not Present Not Present	· · · · · · · · · · · · · · · · · · ·		
- Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - DL DSCH Transport channel identity Not Present	-	1	
- DL DCH Transport channel identity - DL DSCH Transport channel identity Not Present Not Present	-	FACH	
		Not Present	
- Logical channel identity 2	- DL DSCH Transport channel identity	Not Present	
	- Logical channel identity	2	

Information Element	Value/remark	Version
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)	1000000
- 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	ľ	
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
•	TRUE	
- Last retransmission PDU poll	99	
- Poll_Windows		
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info	200	
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
-UL Transport channel identity	5	
- Logical channel identity	3	
- CHOICE RLC size list	Configured	
 MAC logical channel priority 	3	
- Downlink RLC logical channel info		
 Number of RLC logical channels 	1	
 Downlink transport channel type 	DCH	
 DL DCH Transport channel identity 	10	
 DL DSCH Transport channel identity 	Not Present	
 Logical channel identity 	3	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	RACH	
 UL Transport channel identity 	Not Present	
 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	
•	1	. '

Information Element	Value/remark	Version	
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
- RB identity	Not Present		
- CHOICE RLC info type			
- RLC info			
- CHOICE Uplink RLC mode	AM RLC		
- Transmission RLC discard			
- SDU discard mode	No Discard		
- MAX_DAT	15		
- Transmission window size	128		
- Timer_RST	500		
- Max_RST	1		
- Polling info			
- 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		
- J 	l	1	

Information Element	Value/remark	Version
UL Transport channel information for all transport channels		
- PRACH TFCS	Not Present	
- CHOICE Mode	FDD	
- TFC subset	Not Present	
- UL DCH TFCS		
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information		
- CHOICE TFCS representation	Complete reconfiguration	
- TFCS complete reconfiguration information		
- CHOICE CTFC Size	2 bit CTFC	
- CTFC information	2 TFCs	
- 2bit CTFC	0	
- Power offset Information		
- CHOICE Gain Factors	computedGainFactors	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset Pp-m	Not Present	
- 2bit CTFC	1	
- Power offset Information		
- CHOICE Gain Factors	signalledGainFactors	
- CHOICE mode	FDD	
- Gain factor ßc	15	
- Gain factor ßd	15	
- Reference TFC ID	0	
- CHOICE mode	FDD	
- Power offset Pp-m	Not Present	
Added or Reconfigured UL TrCH information list	1	
- Added or Reconfigured UL TrCH information		
- 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	Net Decemb	
- SCCPCH TFCS	Not Present	
- CHOICE mode	FDD Same as III	
- CHOICE DL parameters Added or Reconfigured DL TrCH information list	Same as UL	
- Added or Reconfigured DL TrCH information list	['	
- Downlink transport channel type	DCH	
- DU Transport channel identity	10	
- CHOICE DL parameters	SameAasUL	
- Uplink transport channel type	DCH	
- UL TrCH Identity	5	
- DCH quality target	_	
daz)	ı	ı I

Information Element	Value/remark	Version
- BLER Quality value	-2.0	
Frequency info	Not Present	
Maximum allowed UL TX power	Not Present	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info	·	
- DPCCH power offset	-6dB	
- PC Preamble	1 frame	
- SRB delay	7 frames	
- Power Control Algorithm	Algorithm1	
- TPC step size	1dB	
- $\Delta_{\sf ACK}$	Not Present	REL-5
- Δ _{NACK}	Not Present	REL-5
- Ack-Nack repetition factor	Not Present	REL-5
- CHOICE mode	FDD	
- Scrambling code type	Long	
- Scrambling code number	0 (0 to 16777215)	
- Number of DPDCH	Not Present (1)	
- Spreading factor	256	
- TFCI existence	TRUE	
- Number of FBI bit	Not Present(0)	
- Puncturing Limit	1	
Downlink information common for all radio links	ľ	
- Downlink DPCH info common for all RL		
- Timing Indication	Initialise	
- CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control information	Not i resem	
- CHOICE mode	FDD	
- DPC mode	0 (single)	
- CHOICE mode	FDD	
- Power offset P Pilot-DPDCH	0	
- DL rate matching restriction information	Not Present	
- Spreading factor	256	
- Fixed or Flexible Position	Fixed	
- TFCI existence	FALSE	
- CHOICE SF	IALGE	
- 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	
- Delault DFCIT Offset Value	of 512	
Downlink information for per radio links list	01 312	
-Downlink information for each radio links		
- CHOICE mode	FDD	
- Primary CPICH info		
- Primary scrambling code	Reference to clause 6.1 "Default	
Timary solambling code	settings (FDD)"	
- PDSCH with SHO DCH info	Not Present	
- PDSCH with SHO DCH into	Not Present	
- PDSCH code mapping - Downlink DPCH info for each RL	INOUT TESCHIL	
- CHOICE mode	FDD	
Primary CPICH usage for channel estimation DPCH frame offset	Primary CPICH may be used Set to value : Default DPCH Offset	
- DECH Hame Offset		
Secondary CDICH into	Value mod 38400	
- Secondary CPICH info	Not Present	
- DL channelisation code	Not Procest	
- Secondary scrambling code	Not Present	
- Spreading factor	256	

Information Element	Value/remark	Version
- Code number	192	
- Scrambling code change	Not Present	
- TPC combination index	0	
- SSDT Cell Identity	Not Present	
- Closed loop timing adjustment mode	Not Present	
- SCCPCH information for FACH	Not Present	

Contents of SECURITY MODE COMMAND message: AM

Information Element	Condition	Value/remark
Message Type	A1, A2	
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		
- Message authentication code		Set to an arbitrarily selected 32-bits integer.
		The first/ leftmost bit of the bit string contains
		the most significant bit of the MAC-I.
- RRC Message Sequence Number		Set to an arbitrarily selected integer between
		0 and 15
Security capability		
- Ciphering algorithm capability		
- UEA0		If the UE has indicated support for ciphering
		algorithm UEA0 in the IE "security capability"
		in the RRC CONNECTION SETUP
		COMPLETE message, this IE is set to TRUE.
- UEA1		If the UE has indicated support for ciphering
		algorithm UEA1 in the IE "security capability"
		in the RRC CONNECTION SETUP
		COMPLETE message, this IE is set to TRUE.
- Spare		Spare 2-15 = FALSE
- Integrity protection algorithm capability		0000000000000010B (UIA1)
- UIA1		TRUE
- Spare		Spare 0 and Spare 2-15 = FALSE
Ciphering mode info		This presence of this IE is dependent on IXIT
orphisming mode with		statements in TS 34.123-2. If ciphering is
		indicated to be active, this IE present with the
		values of the sub IEs as stated below. Else,
		this IE is omitted.
- Ciphering mode command		Start/restart
- Ciphering algorithm		UEA0 or UEA1. The indicated algorithm must
		be one of the algorithms supported by the UE
		as indicated in the IE "security capability" in
		the RRC CONNECTION SETUP COMPLETE
		message.
- Ciphering activation time for DPCH		Not Present
- Radio bearer downlink ciphering activation time		Not i resent
info		
- Radio bearer activation time		
- RB identity		1
- RLC sequence number		Current RLC SN+2
- RB identity		2
- RLC sequence number		Current RLC SN+2
- RB identity		3
- RLC sequence number		Current RLC SN + 2
- RB identity		4
- RLC sequence number		Current RLC SN + 2
Integrity protection mode info		Culletit NEC SIN + 2
- Integrity protection mode command		Start
- Downlink integrity protection activation info		Not Present
		UIA1
 Integrity protection algorithm Integrity protection initialisation number 		-
- integrity protection initialisation number		SS selects an arbitrary 32 bits number for FRESH.
		1
		The first/ leftmost bit of the bit string contains the most significant bit of the FRESH.A1
CN domain identity		CS or PS
CN domain identity	۸1	Not Present
UE system specific security capability	A1	INOU I LESCIIL
UE system specific security capability	A2	
- Inter-RAT UE security capability		CSM
- CHOICE system		GSM
- GSM security capability		The indicated algorithms must be the same
		as the algorithms supported by the UE as
	I	indicated in the IE " UE system specific
		capability " in the RRC CONNECTION SETUP COMPLETE message.

Condition Explanation	
A1	UE not supporting GSM
A2	UE supporting GSM

9.2.2 Default Message Contents for RF (TDD)

Contents of Activate RB Test Mode message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	44h

Contents of Close UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

Contents of Open UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	42h

Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
 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 (3.84 Mcps TDD)

Information Element	Condition	Value/remark	Version
Message Type RRC transaction identifier	A1,A3	Arbitrarily colocts on integer between 0 and 2	
Integrity check info		Arbitrarily selects an integer between 0 and 3	
- message authentication code		SS calculates the value of MAC-I for this	
- message authentication code		message and writes to this IE. The first/ leftmost	
		bit of the bit string contains the most significant bit	
		of the MAC-I.	
- RRC message sequence number		SS provides the value of this IE, from its internal	
tooosage coqueooaoo.		counter.	
Integrity protection mode info		Not Present	
Ciphering mode info		Not Present	
Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256	
New U-RNTI		Not Present	
New C-RNTI		Not Present	
New DSCH-RNTI		Not Present	
New H-RNTI		Not Present	REL-5
RRC State indicator		CELL_DCH	
UTRAN DRX cycle length coefficient		Not Present	
CN information info		Not Present	
URA identity		Not Present	
- Signalling RB information to setup		Not Present	
- RAB information for setup list	A1		
 RAB information for setup RAB info 			
- RAB illio - RAB identity		0000 0001B	
- NAD Identity		The first/ leftmost bit of the bit string contains the	
		most significant bit of the RAB identity.	
- CN domain identity		CS domain	
- NAS Synchronization Indicator		Not Present	
- Re-establishment timer		UseT314	
- RB information to setup list			
- RB information to setup			
- RB identity		10	
- PDCP info		Not Present	
 CHOICE RLC info type 		RLC info	
- CHOICE Uplink RLC mode		TM RLC	
- Transmission RLC discard		Not Present	
- Segmentation indication		FALSE	
- CHOICE Downlink RLC mode		TM RLC	
Segmentation indicationRB 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	
 MAC logical channel priority 		7	
- Downlink RLC logical channel info			
- Number of downlink RLC logical		1	
channels		BOLL	
- 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	
RAB information for setup list	A3	INOCT TOSOTIC	
- RAB information for setup	/.0		
- RAB info			
- RAB identity		0000 0101B	
		The first/ leftmost bit of the bit string contains the	
		most significant bit of the RAB identity.	
 CN domain identity 		PS domain	
 CN domain identity NAS Synchronization Indicator 		Not Present	

Information Element	Condition	Value/remark	Version
- RB information to setup list			
- RB information to setup			
- RB identity		20	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		AM RLC	
- Transmission RLC discard			
- CHOICE SDU discard mode		No discard	
- MAX_DAT		15	
 Transmission window size 		128	
- Timer_RST		500	
- Max_RST		4	
- Polling info			
 Timer_poll_prohibit 		200	
- Timer_poll		200	
- Poll_SDU		1	
- Last transmission PDU poll		TRUE	
- Last retransmission PDU poll		TRUE	
- 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		000	
- Timer_status_prohibit		200	
- Timer_EPC		200 TDUE	
- Missing PDU indicator		TRUE	
- Timer_STATUS_periodic - RB mapping info		Not Present	
- Information for each multiplexing option		2RBMuxOptions	
- RLC logical channel mapping indicator		Not Present	
- Number of uplink RLC logical channels		1	
- Uplink transport channel type		DCH	
- UL Transport channel identity		1	
- Logical channel identity		Not Present	
- CHOICE RLC size list		Configured	
- MAC logical channel priority		8	
- Downlink RLC logical channel info			
- Number of downlink RLC logical		1	
channels			
 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		1	
channels Downlink transport channel type		FACH	
Downlink transport channel type DL DCH Transport channel identity		Not Present	
- DL DCH Transport channel identity - 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	Λ1,Α0	Not Present	
UL Transport channel information for all	A1,A3	1101111000111	
transport channels	7.1.,7.10		
- PRACH TFCS		Not Present	
- CHOICE mode		TDD	
-Individual UL CCTrCH information			
- TFCS ID		(This IE is repeated for TFC number.)	
	1		l .

- Allowed Transport Format combination combination - PRACH TFCS - C-HOICE TFCI signalling - TFCI Field 1 information - TFCI Field 1 information - CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTrCH information - Holeta UL TrCH information - Holeta UL TrCH information - Lolleta Multar Tich Information - Lolleta Multar Tich Information - Lolleta Multar Tich Information - Lolleta Multar Multar - Added or Reconfigured UL TrCH information - Uplink transport channel type - Dynamic Transport Format Information - RLC size - Number of TRANSPORT Format Information - RLC size - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - 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 - CHOICE mode - CHOICE DL parameters - CHOICE Mode - CHOICE DL parameters - CHOICE DL parameters - CHOICE Mode - CHOICE DL parameters - CHOICE DL parameters - CHOICE Mode - CHOICE DL parameters - CHOICE DL parameters - CHOICE Mode - CHOICE DL parameters - CHOICE Mode - CHOICE DL parameters - CHOICE DL pa	Information Element	Condition	Value/remark	Version
combination PRACH TFCS PRACH TFC HIDMAN PRACH TFCH HIDMAN P	- Allowed Transport Format		0 to MaxTFCvalue-1 (MaxTFCValue is refer to	
- PRACH TFCS - C-HOICE TFCI signalling - TFCI Field 1 information - TFCS complete reconfigure information - CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTCH information Deleted UL TrCH information is: - Added or Reconfigured UL TrCH information - Uplink transport channel type - Dynamic Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - 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 - CHOICE mode - CHOICE DL parameters - CHOICE DL parameters - CHOICE DL parameters - CHOICE DL parameters - CHOICE DL parameters - CHOICE DL parameters - CHOICE DL parameters - Uplink transport channel type - UL Transport channel pype - UL Transport channel pype - Dunamic transport channel pype - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - CHOICE mode - CHOICE DL parameters - CHOICE mode - CHOICE DL parameters - CHOICE put parameters - CHOICE mode - CHOICE put parameters - CHOICE put parameters - CHOICE put parameters - Uplink transport channel type - UL Transport channel information - Downlink transport channel type - UL Transport channel information - Downlink transport channel type - UL Transport channel information - Downlink transport channel type - UL Transport channel information - Downlink transport channel type - UL Transport channel information - Downlink transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Transport channel type - UL Tra		1		
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- CRC size Reference to TS34.108 clause 6.10 Parameter Set CHOICE mode A1, A3 TDD (no data) DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters Deleted DL TrCH information list Added or Reconfigured DL 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 TrCH identity - DCH quality target Reference to TS34.108 clause 6.10 Parameter Set Not Present TDD Independent (Refer to TS34.108 clause 6) A1,A3 Not Present 1 CHOICE DL parameters - Same as UL - DCH	- Rate matching attribute			
CHOICE mode A1, A3 DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters Deleted DL TrCH information list Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information list - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target Set A1, A3 TDD (no data) Not Present TDD Independent (Refer to TS34.108 clause 6) Not Present 1 CHOICE DL parameters Same as UL DCH 1 1 1 1 1 1 1 1 1 1 1 1 1			Set	
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DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters Deleted DL TrCH information list Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information list - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target A1,A3 Not Present 1 DCH Same as UL DCH 1 DCH 1 DCH 1				
all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters Deleted DL 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 TrCH identity - DCH quality target Not Present A1,A3 Not Present 1 DCH 6 Same as UL DCH 1 DCH DCH			TDD (no data)	
- SCCPCH TFCS - CHOICE mode - CHOICE DL parameters Deleted DL TrCH information list Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information list - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target Not Present TDD Independent (Refer to TS34.108 clause 6) Not Present TDD Independent (Refer to TS34.108 clause 6) Not Present TDD Independent (Refer to TS34.108 clause 6) Not Present 1 1 1 1 DCH 6 Same as UL DCH 1 DCH		A1,A3		
- CHOICE mode - CHOICE DL parameters Deleted DL TrCH information list Added or Reconfigured DL 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 TrCH identity - DCH quality target TDD Independent (Refer to TS34.108 clause 6) Not Present 1 DCH 5 CHOICE DL parameters - Same as UL DCH 1 1 1 DCH 1 1 DCH 1				
- CHOICE DL parameters Independent (Refer to TS34.108 clause 6) Deleted DL TrCH information list Added or Reconfigured DL 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 TrCH identity - DCH quality target		1		
Deleted DL TrCH information list Added or Reconfigured DL 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 TrCH identity - DCH quality target A1,A3 Not Present 1 DCH Same as UL DCH 1 DCH		1	'	
Added or Reconfigured DL 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 TrCH identity - DCH quality target				
- Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target	Deleted DL TrCH information list	A1,A3	Not Present	
- Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target	Added or Reconfigured DL TrCH information list	1	1	
information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target				
- DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target		1		
- DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target	 Downlink transport channel type 		DCH	
- CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target		1		
- Uplink transport channel type - UL TrCH identity - DCH quality target		1	Same as UL	
- UL TrCH identity - DCH quality target			DCH	
- DCH quality target		1	1	
		1		
- BLER Quality value Reference to TS34.108 clause 6			Reference to TS34.108 clause 6	
Frequency info A1,A3 Not Present		A1,A3		
Maximum allowed UL TX power 30dBm		' -		
CHOICE channel requirement Uplink DPCH info	CHOICE channel requirement	1		
- Uplink DPCH power control info		1	<u> </u>	
- CHOICE mode TDD			TDD	
- UL Target SIR Reference to TS34.108 Parameter set.		1	'	
- CHOICE UL OL PC info Individually signalled		1		
- CHOICE TDD option 3.84 Mcps				

Information Element	Condition	Value/remark	Version
- Individual timeslot interference			
info			
 Individual timeslot interference DPCH Constant Value 		Values are used for open loop power control, section 8 in TS 25.331	
- CHOICE mode		TDD	
- Uplink Timing Advance Control		Not Present	
- UL CCTrCH List		THOSE I TOOGHE	
- TFCS Id		1	
- Time info			
 Activation time 		(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration		Infinite	
 Common timeslot info 			
- 2 _{nd} interleaving mode		Reference to TS34.108 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	
T-01		unassigned codes.	
- TFCI existence		TRUE	
- Midamble shift and burst type		2 94 Mono	
- CHOICE TDD option -CHOICE Burst Type		3.84 Mcps	
-Type 1			
-Midamble Allocation		Default	
Mode			
- Midamble configuration		As defined in 3GPP TS 25.221	
burst type 1 and 3			
 First timeslot channelisation codes 		Repeated (1,2) for each channelisation code	
		assigned in the slot to meet the needs of	
		TS34.108 clause 6 Parameter Set.	
- Channelisation code		(i/SF) where i denotes an unassigned code	
		matching the SF specified in TS34.108 clause	
0110105 timl-t-		6 Parameter Set.	
- CHOICE more timeslots		The presence of this IE depends upon the	
		number of resources specified in TS34.108	
		section 6 and the number of slots in which they are being assigned.	
CHOICE Mode		TDD (no data)	
Downlink HS-PDSCH Information	A1,A3	Not Present	REL-5
Downlink information common for all radio links	A1,A3		
- Downlink DPCH info common for all RL	,		
- Timing indicator		Maintain	
 CFN-targetSFN frame offset 		Not Present	
- Downlink DPCH power control			
information			
- CHOICE mode		TDD	
- DPC mode		0 (single)	
- CHOICE TDD mode		3.84 Mcps (no data)	
- Default DPCH Offset Value	Λ1 Λ2	Not Present	
Downlink information for per radio link list - Downlink information for each radio link	A1,A3		
- CHOICE mode		TDD	
- CHOICE Mode - 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	

	Information Element	Condition	Value/remark	Version
	- DL CCTrCH List			
	- TFCS ID		1	
	- Time info			
	 Activation time 		(256+CFN-(CFN mod 8 + 8))mod 256	
	- Duration		infinite	
	 Common timeslot info 			
	- 2nd interleaving mode		Reference to TS34.108	
	- TFCI coding		TRUE	
	- Puncturing limit		Reference to TS34.108 clause 6 Parameter set	
	- Repetition period		1	
	- Repetition length		Empty	
	- Downlink DPCH timeslots and			
codes				
	- Individual timeslot info			
	- Timeslot number		The number of a downlink timeslot that has	
			unassigned codes.	
	- TFCI existence		TRUE	
	 Midamble shift and burst 			
type				
,,	- CHOICE TDD option		3.84 Mcps	
	-CHOICE Burst Type		•	
	-Type 1			
	-Midamble Allocation		Default	
Mode				
	- Midamble		As defined in 3GPP TS 25.221	
	configuration burst type			
	1 and 3			
	- First timeslot channelisation			
codes				
	- First channelisation code		(i/SF) where i is the lowest numbered code	
			that is being assigned and SF is specified in	
			TS34.108 clause 6 Parameter Set	
	- 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	
	· - r		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 RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

Message Type RRC transaction identifier Integrity check info - message authentication code A1,A3 Arbitrarily selects an integer between 0 and SS calculates the value of MAC-I for this	d 3
RRC transaction identifier Integrity check info Arbitrarily selects an integer between 0 and arbitrarily selects an integer between 0 and arbitrarily selects an integer between 0 and arbitrarily selects an integer between 0 and arbitrarily selects an integer between 0 and arbitrarily selects and integer between 0 and arbitrarily selects and integer between 0 and arbitrarily selects and integer between 0 and arbitrarily selects and integer between 0 and arbitrarily selects and integer between 0 and arbitrarily selects and integer between 0 and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects and arbitrarily selects are selected as a selected arbitrarily selects and arbitrarily selected	d 3
Integrity check info	
message and writes to this IE. The first/	
leftmost bit of the bit string contains the m	ost
significant bit of the MAC-I.	501
- 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	ם בו ב
New H-RNTI Not Present	REL-5
RRC State indicator CELL_DCH	
UTRAN DRX cycle length coefficient Not Present	
CN information info	
URA identity Not Present	
- Signalling RB information to setup Not Present	
- RAB information for setup list A1	
- RAB information for setup	
- RAB info	
- RAB identity 0000 0001B	
The first/ leftmost bit of the bit string conta	ins
the most significant bit of the RAB identity	
- CN domain identity CS domain	
- NAS Synchronization Indicator Not Present	
- Re-establishment timer UseT314	
- RB information to setup list	
- RB information to setup	
- RB identity 10	
- PDCP info Not Present	
- CHOICE RLC info type RLC info	
- CHOICE Uplink RLC mode TM RLC	
- Transmission RLC discard Not Present	
- Segmentation indication FALSE	
- CHÖICE Downlink RLC mode TM RLC	
- Segmentation indication FALSE	
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator Not Present	
- Number of uplink RLC logical channels 1	
- Uplink transport channel type DCH	
- UL Transport channel identity	
- Logical channel identity 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	
- DCH Transport channel identity 6	
- DL DCH Transport channel identity - 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	
The first/ leftmost bit of the bit string conta	
the most significant bit of the RAB identity	
- CN domain identity PS domain	
- NAS Synchronization Indicator Not Present	
- Re-establishment timer UseT314	
- RB information to setup list	I

Information Element	Condition	Value/remark	Versio
- RB information to setup			
- RB identity		20	
- PDCP info		Not Present	
- CHOICE RLC info type		RLC info	
- CHOICE Uplink RLC mode		AM RLC	
- Transmission RLC discard			
 CHOICE SDU discard mode 		No discard	
- MAX_DAT		15	
- Transmission window size		128	
- Timer_RST		500	
- Max_RST		4	
- Polling info			
- Timer_poll_prohibit		200	
- Timer_poll		200	
- Poll_SDU		1	
 Last transmission PDU poll 		TRUE	
 Last retransmission PDU poll 		TRUE	
- Poll_Windows		99	
- Timer_poll_periodic		Not Present	
- CHOICE Downlink RLC mode		AM RLC	
- In-sequence delivery		TRUE	
- Receiving window size		128	
- Downlink RLC status info			
		200	
- Timer_status_prohibit		200	
- Timer_EPC		200	
 Missing PDU indicator 		TRUE	
- Timer_STATUS_periodic		Not Present	
- RB mapping info			
		2PPMuyOntions	
- 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		l .	
 Number of downlink RLC logical channels 		1	
 Downlink transport channel type 		FACH	
- DL DCH Transport channel identity		Not Present	
		Not Present	
- DL DSCH Transport channel identity			
- Logical channel identity		Not Present	
RB information to be affected list	A1,A3	Not Present	
Downlink counter synchronisation info		Not Present	
JL Transport channel information for all transport	A1,A3		
	A1,A3		
channels			
- PRACH TFCS		Not Present	
- CHOICE mode		TDD	
-Individual UL CCTrCH information			
- TFCS ID		(This IE is repeated for TEC number)	
		(This IE is repeated for TFC number.)	
 Allowed Transport Format combination 		0 to MaxTFCvalue-1 (MaxTFCValue is refer to TS34.108 clause 6 Parameter Set.)	

Information Element	Condition	Value/remark	Versio
- PRACH TFCS		(This IE is repeated for TFC number.)	
- CHOICE TFCI signalling		Normal	
 TFCI Field 1 information 			
- TFCS complete reconfigure information		N	
- CHOICE TFCS Size		Number of used bits must be enough to cover	
		all combinations of CTFC from clauses 6.	
0.750 : (Refer to TS34.108 clause 6 Parameter Set	
- CTFC information		Not Present	
- CHOICE mode		TDD	
 Individual UL CCTrCH information 		Not Present	
Deleted UL TrCH information list		Not Present	
Added or Reconfigured UL TrCH information list	A1	1	
 Added or Reconfigured UL TrCH information 			
 Uplink transport channel type 		DCH	
- UL Transport channel identity		1	
- TFS			
- CHOICE Transport channel type		Dedicated transport channels	
- Dynamic Transport Format Information		D-f	
- RLC size		Reference to TS34.108 clause 6 Parameter	
Number of TDs and TTLL ist		Set (This IE is repeated for TEI number)	
 Number of TBs and TTI List Transmission Time Interval 		(This IE is repeated for TFI number.) Not Present	
		Reference to TS34.108 clause 6 Parameter	
- Number of Transport blocks		Set	
- Transmission Time Interval		Not Present	
Number of Transport blocks		1	
- CHOICE Logical Channel List		ALL	
- Semi-static Transport Format Information		ALL	
- Transmission time interval		Reference to TS34.108 clause 6 Parameter	
Transmission and merval		Set	
- Type of channel coding		Reference to TS34.108 clause 6 Parameter	
Type or chainer ocaling		Set	
- Coding Rate		Reference to TS34.108 clause 6 Parameter	
Journal Control		Set	
- Rate matching attribute		Reference to TS34.108 clause 6 Parameter	
ŭ		Set	
- CRC size		Reference to TS34.108 clause 6 Parameter	
		Set	
CHOICE mode	A1, A3	TDD (no data)	
DL Transport channel information common for all	A1,A3		
transport channel			
- SCCPCH TFCS		Not Present	
- CHOICE mode		TDD	
- CHOICE DL parameters		Independent (Refer to TS34.108 clause 6)	
Deleted DL TrCH information list	A1,A3	Not Present	
Added or Reconfigured DL TrCH information list		1	
- Added or Reconfigured DL TrCH information		DOLL.	
- Downlink transport channel type		DCH	
- DL Transport channel identity		6	
- CHOICE DL parameters		Same as UL	
- Uplink transport channel type		DCH	
- UL TrCH identity		1	
 DCH quality target BLER Quality value 		Reference to TS34.108 clause 6	
Frequency info	A1,A3	Not Present	
Maximum allowed UL TX power	71,73	30dBm	
CHOICE channel requirement		Uplink DPCH info	
- Uplink DPCH power control info		Opinik Di Ori ililo	
- CHOICE mode		TDD	
- UL Target SIR		Reference to TS34.108 Parameter set.	
- CHOICE UL OL PC info		Individually signalled	
- CHOICE TDD option		1.28 Mcps	
- TPC step size		1 dB	
- Primary CCPCH Tx Power		Not Present	
- CHOICE mode		TDD	
- Uplink Timing Advance Control		Not Present	
- UL CCTrCH List	1	1	

Information Element	Condition	Value/remark	Versio
- TFCS ld		1	
- Time info		(050, 051) (051) 105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
- Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration		Infinite	
- Common timeslot info		D-f t- T004 400 -l 0 D	
- 2 _{nd} interleaving mode		Reference to TS34.108 clause 6 Parameter Set	
- TFCI coding		Reference to TS34.108 clause 6 Parameter Set	
- Puncturing Limit		Reference to TS34.108 clause 6 Parameter Set	
- Repetition Period		Reference to TS34.108 clause 6 Parameter Set	
- Repetition Length		Reference to TS34.108 clause 6 Parameter Set	
 First individual timeslot info 			
- Timeslot number		The number of an uplink timeslot that has	
		unassigned codes.	
- TFCI existence		TRUE	
 Midamble shift and burst type 			
- CHOICE TDD option		1.28 Mcps	
- Midamble allocation mode		Default	
 Midamble configuration 		16	
- CHOICE TDD option		1.28 Mcps TDD	
- Modulation		QPSK	
- SS-TPC Symbols		1	
- CHOICE Mode		TDD	
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code	
That unional analysis and analysis analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis and analysis analysis and analysis an		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	
- Orial inelisation code		matching the SF specified in TS34.108 clause	
		6 Parameter Set.	
- CHOICE more timeslots		The presence of this IE depends upon the	
- CHOICE More timestors			
		number of resources specified in TS34.108 section 6 and the number of slots in which they	
CHOICE Mode		are being assigned. TDD (no data)	
Downlink HS-PDSCH Information	A4 A2	TDD (no data) Not Present	REL-5
Downlink H3-PD3CH Information Downlink information common for all radio links	A1,A3	Not Fresent	KEL-3
	A1,A3		
- Downlink DPCH info common for all RL			
- Timing indicator		Maintain	
- CFN-targetSFN frame offset		Not Present	
- Downlink DPCH power control information			
- CHOICE mode		TDD	
- TPC step size		1 dB]
- CHOICE TDD mode		1.28 Mcps	
- TSTD indicator		TRUE	
- Default DPCH Offset Value		Not Present	
Downlink information for per radio link list	A1,A3		1
- Downlink information for each radio link			
- CHOICE mode		TDD]
- Primary CCPCH info			
- CHOICE TDD option		1.28 Mcps	
- TSTD indicator		TRUE	
- Cell parameters ID		0	
- Block STTD indicator		FALSE	
- Downlink DPCH info for each RL		17.202]
- CHOICE mode		TDD	
		1	1
- DL CCTrCH List		1	
- TFCS ID		1	
- TFCS ID - Time info			
TFCS IDTime infoActivation time		(256+CFN-(CFN mod 8 + 8))mod 256	
TFCS IDTime infoActivation timeDuration			
TFCS IDTime infoActivation timeDurationCommon timeslot info		(256+CFN-(CFN mod 8 + 8))mod 256 Infinite	
- TFCS ID - Time info - Activation time - Duration		(256+CFN-(CFN mod 8 + 8))mod 256	

Information Element	Condition	Value/remark	Versio
- Puncturing limit		Reference to TS34.108 clause 6 Parameter	
-		set	
- Repetition period		1	
- Repetition length		Empty	
 Downlink DPCH timeslots and codes 			
 Individual timeslot info 			
- Timeslot number		The number of a downlink timeslot that has	
		unassigned codes.	
- TFCI existence		TRUE	
 Midamble shift and burst type 			
- CHOICE TDD option		1.28 Mcps	
-Midamble Allocation Mode		Default	
 Midamble configuration 		16	
- Modulation		QPSK	
- SS-TPC Symbols		1	
 First timeslot channelisation codes 			
 First channelisation code 		(i/SF) where i is the lowest numbered code	
		that is being assigned and SF is specified in	
		TS34.108 clause 6 Parameter Set	
 Last channelisation code 		(j/SF) where j is the highest numbered code	
		that is being assigned in the slot.	
- Bitmap		Bitmap of the codes that are being assigned in	
		the slot.	
- CHOICE more timeslots		The presence of this IE depends upon whether	
		the requirements of TS34.108 clause 6	
		Parameter Set could be met by the codes that	
		have been assigned in the first timeslot	
- UL CCTrCH TPC List		Not Present	
-SCCPCH information for FACH		Not Present	

Condition		Explanation
A1		This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected.
A3		This IE is needed for acknowledged mode.
NOTE: In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the combination of UL and DL channels or test requirements.		,

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark	Version
Message Type		
U-RNTI	This IE is set to the following value when the message is transmitted on the DCCCH. When	R99, REL-4
	transmitted on CDCCH, this is absent.	
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
CHOICE identity type	This IE is set to the following value when the	REL-5
Crisis Marinistry type	message is transmitted on the CCCH. When	0
	transmitted on DCCH, this is absent.	
- U-RNTI	,	
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
- Group identity	[FFS]	
 Group release information 	[FFS]	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Integrity check info	This IE is present when this message is transmitted	
	on downlink DCCH. Else, this IE and the sub-IEs are	
	omitted.	
- Message authentication code	SS calculates the value of MAC-I for this message	
	and writes to this IE. The first/ leftmost bit of the bit	
DDC Massacra sarriansa murahan	string contains the most significant bit of the MAC-I.	
- RRC Message sequence number	SS provides the value of this IE, from its internal	
N308	counter.	
INSUO	2 (for CELL_DCH state). Not Present (for UE in other connected mode states).	
Release cause	Normal event	
Rplmn information	Not Present	
Tymin mornauon	NOT LESCHE	

Contents of RRC CONNECTION SETUP message: UM (3.84 Mcps TDD)

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial	
	UE Identity" in received RRC CONNECTION	
	REQUEST" message	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Activation time	Not Present(Now)	
New U-RNTI	,	
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
New C-RNTI	Not Present	
RRC State Indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	9	
Capability update requirement		
- UE radio access FDD capability update	FALSE	
	FALSE	
requirement	TDUE	
- UE radio access TDD capability update	TRUE	
requirement	CCM	
- System specific capability update	GSM	
requirement list	Complete enecification	ם בי ב
CHOICE specification mode	Complete specification	REL-5
- Complete specification	4.000	REL-5
- Signalling RB information to setup list	4 SRBs	
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard	Not Present	
- CHOICE Downlink RLC mode	UM RLC	
- RB mapping info		
 Information for each multiplexing option 	2 RBMuxOptions	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	DCH	
 UL Transport channel identity 	5	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	1	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	1	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- RLC size index	Reference to TS34.108 clause 6 Parameter	
- INEO SIZE IIIUEA	Set	
- MAC logical channel priority	Set 1	
	'	
- Downlink RLC logical channel info	1	
- Number of RLC logical channels	1 FACH	
- Downlink transport channel type	FACH Not Present	
 DL DCH Transport channel identity 	Not Present	Į

Information Element	Value/remark	Version
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	1	
- Signalling RB information to setup	(AM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No Discard	
- MAX_DAT	415	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	4	
- Polling info		
Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
 Last transmission PDU poll 	TRUE	
 Last retransmission PDU poll 	TRUE	
- Poll_Windows	99	
 Timer_poll_periodic 	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
 Receiving window size 	128	
 Downlink RLC status info 		
 Timer_status_prohibit 	200	
- Timer_EPC	Not Present	
 Missing PDU indicator 	TRUE	
 Timer_STATUS_periodic 	Not Present	
- RB mapping info		
 Information for each multiplexing option 	2 RBMuxOptions	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	2	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	2	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	2	
- CHOICE RLC size list	Explicit List	
- RLC size index	Reference to TS34.108 clause 6 Parameter	
MAQ Is visual at the second	Set	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH Not Present	
- DL DCH Transport channel identity	Not Present	ı l

Information Element	Value/remark	Version
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	2	
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No Discard	
- MAX_DAT	415	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	4	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
 Last transmission PDU poll 	TRUE	
 Last retransmission PDU poll 	TRUE	
- Poll_Windows	99	
Timer_poll_periodic	Not Present	
 CHOICE Downlink RLC mode 	AM RLC	
- In-sequence delivery	TRUE	
 Receiving window size 	128	
- Downlink RLC status info		
 Timer_status_prohibit 	200	
- Timer_EPC	Not Present	
 Missing PDU indicator 	TRUE	
 Timer_STATUS_periodic 	Not Present	
- RB mapping info		
 Information for each multiplexing option 	2 RBMuxOptions	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	DCH	
-UL Transport channel identity	5	
- Logical channel identity	3	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	3	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	3	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- 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	

Information Element	Value/remark	Version
- DL DSCH Transport channel identity	Not Present	3121011
- 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	1
- Max_RST	4	
- Polling info		
Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
 Last transmission PDU poll 	TRUE	1
 Last retransmission PDU poll 	TRUE	
- Poll_Windows	99	1
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	1
- Receiving window size	128	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info	2 DDM: "Onting -	
- 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 4	1
- Logical channel identity - CHOICE RLC size list	Configured	
- MAC logical channel priority	4	
Downlink RLC logical channel info	7	
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	1
- 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	1
- MAC logical channel priority	4	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
•	•	

Information Element	Value/remark	Version
 DL DSCH Transport channel identity 	Not Present	
 Logical channel identity 	4	
UL Transport channel information for all transport		
channels		
- PRACH TFCS	Not Present	
- CHOICE Mode	TDD	
-Individual UL CCTrCH information		
- UL TFCS ID	(This IE is repeated for TFC number.)	
- UL TFCS		
- TFC subset	Default value is the complete existing set	
	of transport format combinations	
 Allowed Transport Format combination 	0 to MaxTFCvalue-1 (MaxTFCValue is refer	
	to	
DDAOU TECC	TS34.108 clause 6 Parameter Set.)	
- PRACH TFCS - CHOICE TFCI signalling	(This IE is repeated for TFC number.) Normal	
- TFCI Field 1 information	Nomai	
- TFCS complete reconfigure		
information		
- CHOICE TFCS Size	Number of used bits must be enough to cover	
	all combinations of CTFC from clauses 6.	
	Refer to TS34.108 clause 6 Parameter Set	
- CTFC information	Not Present	
- CHOICE mode - Individual UL CCTrCH information	TDD Not Present	
Deleted TrCH information list	Not Present	
Added or Reconfigured UL TrCH information list	1	
- Added or Reconfigured UL TrCH information		
_	DCH	
- Uplink transport channel type		
- UL Transport channel identity - TFS	5	
	De diseased transport about als	
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport Format Information	A TOO 4 400	
- RLC size	According to TS34.108 clause 6	
- Number of TBs and TTI List	(This IE is repeated for TFI number)	
- CHOICE mode	TDD	
- Transmission Time Interval	According to TS34.108 clause 6	
- CHOICE Logical channel list	All	
- Semi-static Transport Format information		
DL Transport channel information common for all		
transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	TDD	
- CHOICE DL parameters	Same as UL	
Added or Reconfigured DL TrCH information list	1	
- Added or Reconfigured DL TrCH information		
- Downlink transport channel type	DCH	
- DL Transport channel identity	10	
- CHOICE DL parameters	Same as UL	
- Uplink transport channel type	DCH	
- UL TrCH Identity	5	
- DCH quality target		
- BLER Quality value	Reference to TS 34.108	
Frequency info	Not Present	
Maximum allowed UL TX power	Not Present	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info		
- CHOICE mode	TDD	
- CHOICE TDD option	3.84 Mcps	

Information Element	Value/remark	Version
- CHOICE mode	TDD	
- CHOICE UL OL PC info	Individually signalled	
- CHOICE TDD option	3.84 Mcps	
- Individual timeslot interference info	Not Present	
- Individual timeslot interference		
- DPCH Constant Value		
- Primary CCPCH Tx Power	Not Present	
- Time info		
- Activation time	(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	
Tr or ocuming	Parameter Set	
- Puncturing Limit	Reference to TS34.108 clause 6.10	
T directing Limit	Parameter Set	
- Repetition Period	Reference to TS34.108 clause 6.10	
Troposition Follow	Parameter Set	
- Repetition Length	Reference to TS34.108 clause 6.10	
repetition Length	Parameter Set	
- Uplink DPCH timeslots and codes	Default is to use the old timeslots and codes	
- CPCH SET Info	(no data)	
Downlink information common for all radio links	(110 data)	
- Downlink DPCH info common for all RL		
- Timing Indication	Initialise	
- CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control information	Not Flesent	
- DPC mode	0 (single)	
- CHOICE mode	TDD	
- CHOICE TDD option	3.84 Mcps (no data)	
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of	
Described information for you notice links list	512	
Downlink information for per radio links list -Downlink information for each radio links		
- CHOICE mode	TDD	
	TDD	
- Primary CCPCH info	Cura Casa 4	
- CHOICE SyncCase	Sync Case 1	
- Timeslot	PCCPCH timeslot	
- Cell parameters ID	0	
- SCTD indicator		
- Downlink DPCH info for each RL	TDD	
- CHOICE mode	TDD	
- DL CCTrCH List	1	
- TFCS ID	1	
- Time info	(050 · O5N (05N 10 · 0)) 1050	
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256	
- Duration	infinite	
- Common timeslot info	D-f	
- 2 _{nd} interleaving mode	Reference to TS34.108	
- TFCI coding	TRUE	
- Puncturing limit	Reference to TS34.108 clause 6 Parameter	
	set	
- Repetition period	1	
- Repetition length	Empty	
- Downlink DPCH timeslots and codes		
- CHOICE more timeslots	0.04 Maria	
- CHOICE TDD option	3.84 Mcps	

Information Element	Value/remark	Version
- Timeslot number	The number of a downlink timeslot that has	
	unassigned codes in a frame.	
 Individual timeslot info 		
- TFCI existence	TRUE	
 Midamble shift and burst type 		
- CHOICE TDD option	3.84 Mcps	
-CHOICE Burst Type		
-Type 1		
-Midamble Allocation Mode	Default	
- Midamble configuration	As defined in 3GPP TS 25.221	
burst type 1 and 3		
- First timeslot channelisation codes		
- First channelisation code	(i/SF) where i is the lowest numbered code	
	that is being assigned and SF is specified in	
	TS34.108 clause 6 Parameter Set	
- Last channelisation code	(j/SF) where j is the highest numbered code	
	that is being assigned in the slot.	
- CHOICE more timeslots	The presence of this IE depends upon	
	whether	
	the requirements of TS34.108 clause 6	
	Parameter Set could be met by the codes	
	that	
	have been assigned in the first timeslot	
- UL CCTrCH TPC List	Not Present	
 SCCPCH information for FACH 	Not Present	

Contents of RRC CONNECTION SETUP message: UM (1.28 Mcps TDD)

Information Element	Value/remark	Version
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial UE	
	Identity" in received RRC CONNECTION	
	REQUEST" message	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Activation time	Not Present(Now)	
New U-RNTI	THOUT TOSCIM(THOW)	
- 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	9	
	FALSE	
- UE radio access FDD capability update	FALSE	
requirement	TDUE	
- UE radio access TDD capability update	TRUE	
requirement	CCM	
- System specific capability update	GSM	
requirement list	Commission of the state of	DEL 6
CHOICE specification mode	Complete specification	REL-5
- Complete specification	4.000	REL-5
- Signalling RB information to setup list	4 SRBs	
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard	Not Present	
- CHOICE Downlink RLC mode	UM RLC	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	1	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
 Logical channel identity 	1	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
 UL Transport channel identity 	Not Present	
 Logical channel identity 	1	
- CHOICE RLC size list	Configured	
- RLC size index	Reference to TS34.108 clause 6 Parameter	
	Set	
- MAC logical channel priority	1	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	

Information Element	Value/remark	Version
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	1	
- Signalling RB information to setup	(AM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No Discard	
- MAX_DAT	415	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	4	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
 UL Transport channel identity 	5	
- Logical channel identity	2	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	2	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
 Uplink transport channel type 	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	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	

Information Element	Value/remark	Version
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	2	
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No Discard	
- MAX_DAT	415	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	4	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
-UL Transport channel identity	5	
- Logical channel identity	3	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	3	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	3	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- 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	
- DE DOLL Hansport Granner Identity	HOLI IGSGIIL	ı l

Information Element	Value/remark	Version
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	3	
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		
- CHOICE Uplink RLC mode	AM RLC	
- Transmission RLC discard		
- SDU discard mode	No Discard	
- MAX_DAT	415	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	4	
- Polling info		
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not Present	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info		
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info		
 Information for each multiplexing option 	2 RBMuxOptions	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	DCH	
 UL Transport channel identity 	5	
 Logical channel identity 	4	
- CHOICE RLC size list	Configured	
 MAC logical channel priority 	4	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	4	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	4	
- CHOICE RLC size list	Explicit List	
- RLC size index	Reference to TS34.108 clause 6 Parameter Set	
- MAC logical channel priority	4	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	

Information Element	Value/remark	Version
- DL DSCH Transport channel identity	Not Present	
 Logical channel identity 	4	
UL Transport channel information for all		
transport channels		
- PRACH TFCS	Not Present	
- CHOICE Mode	TDD	
-Individual UL CCTrCH information		
- UL TFCS ID	(This IE is repeated for TFC number.)	
- UL TFCS		
- TFC subset	Default value is the complete existing set of transport format combinations	
- Allowed Transport Format	0 to MaxTFCvalue-1 (MaxTFCValue is refer to	
combination - PRACH TFCS	TS34.108 clause 6 Parameter Set.) (This IE is repeated for TFC number.)	
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information	TVOTTICAL .	
- TFCS complete reconfigure		
information		
- CHOICE TFCS Size	Number of used bits must be enough to cover	
	all combinations of CTFC from clauses 6.	
- CTFC information	Refer to TS34.108 clause 6 Parameter Set Not Present	
- CHOICE mode	TDD	
- Individual UL CCTrCH information	Not Present	
Deleted TrCH information list	Not Present	
Added or Reconfigured UL TrCH information	1	
list - Added or Reconfigured UL TrCH		
information		
 Uplink transport channel type 	DCH	
- UL Transport channel identity	5	
- TFS		
- CHOICE Transport channel type	Dedicated transport channels	
 Dynamic Transport Format Information 		
- RLC size	According to TS34.108 clause 6	
 Number of TBs and TTI List 	(This IE is repeated for TFI number)	
- CHOICE mode	TDD	
 Transmission Time Interval 	According to TS34.108 clause 6	
 CHOICE Logical channel list 	All	
- Semi-static Transport Format information		
DL Transport channel information common for		
all transport channel		
- SCCPCH TFCS	Not Present	
- CHOICE mode	TDD	
- CHOICE DL parameters	Same as UL	
Added or Reconfigured DL TrCH information	1	
list		
- Added or Reconfigured DL TrCH information	201	
- Downlink transport channel type	DCH	
- DL Transport channel identity	10	
- CHOICE DL parameters	Same as UL	
- Uplink transport channel type	DCH	
- UL TrCH Identity	5	
- DCH quality target		
- BLER Quality value	Reference to TS 34.108	
Frequency info	Not Present	
Maximum allowed UL TX power	Not Present	
CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info		
- CHOICE mode	TDD	
- CHOICE TDD option	1.28 Mcps	

Information Element	Value/remark	Version
- PRX _{PDPCHdes}	Reference to TS34.108 Parameter set	
- CHOICE mode	TDD	
- CHOICE UL OL PC info	Individually signalled	
- CHOICE TDD option	1.28 Mcps	
- TPC step size	Not Present	
- Primary CCPCH Tx Power	Not Present	
- Primary CCPCH Tx Power	Not Present	
- Time info		
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256	
- Duration	Infinite	
- Common timeslot info		
- 2nd interleaving mode	Reference to TS34.108 clause 6 Parameter	
	Set	
- TFCI coding	Reference to TS34.108 clause 6 Parameter	
0. 00	Set	
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter	
. anotaring Emili	Set	
- Repetition Period	Reference to TS34.108 clause 6 Parameter	
. topolition 1 onou	Set	
- Repetition Length	Reference to TS34.108 clause 6 Parameter	
Repetition Length	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	(no data)	
- Downlink DPCH info common for all RL		
- Timing Indication	Initialise	
- CFN-targetSFN frame offset	Not Present	
- Downlink DPCH power control	Not i resem	
information		
- DPC mode	0 (single)	
- CHOICE mode	TDD	
- CHOICE TDD option	1.28 Mcps	
- TSTD indicator	TRUE	
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512	
Downlink information for per radio links list	This is any cost to value of cooccess by crop of cite	
-Downlink information for each radio links		
- CHOICE mode	TDD	
- Primary CCPCH info		
- CHOICE SyncCase	Sync Case 1	
- Timeslot	PCCPCH timeslot	
- Cell parameters ID	0	
- SCTD indicator	-	
- Downlink DPCH info for each RL		
- CHOICE mode	TDD	
- DL CCTrCH List		
- TFCS ID	1	
- Time info		
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256	
- Duration	infinite	
- Common timeslot info		
- 2nd interleaving mode	Reference to TS34.108	
- TFCI coding	TRUE	
- Puncturing limit	Reference to TS34.108 clause 6 Parameter	
. ss.ang	set	
- Repetition period	1	
- Repetition length	Empty	
- Downlink DPCH timeslots and	1.3	
25 William Dr. Orr tilliosioto dila	<u> </u>	

Information Element	Value/remark	Version
codes		
- CHOICE more timeslots		
- CHOICE TDD option	1.28 Mcps	
- Timeslot number	The number of a downlink timeslot that has	
	unassigned codes in a subframe.	
 Individual timeslot info 		
- TFCI existence	TRUE	
 Midamble shift and burst 		
type		
- CHOICE TDD option	1.28 Mcps	
-CHOICE Burst Type		
-Midamble Allocation	Default	
Mode	A 1 (1: 00DD T0 05 004	
- Midamble configuration	As defined in 3GPP TS 25.221	
- First timeslot channelisation		
- First channelisation code	(:/CF)hava i ia tha lawast rough and and a	
- 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	
East sharmonoation oddo	that is being assigned in the slot.	
- CHOICE more timeslots	The presence of this IE depends upon whether	
5. 15.5 <u>2</u> 55	the requirements of TS34.108 clause 6	
	Parameter Set could be met by the codes that	
	have been assigned in the first timeslot	
	-	
- UL CCTrCH TPC List	Not Present	
-SCCPCH information for FACH	Not Present	

Contents of SECURITY MODE COMMAND message: AM

Information Element	Condition	Value/remark
Message Type	A1, A2	
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		Cat to an arbitrarily adjected 22 bits into gar
- Message authentication code		Set to an arbitrarily selected 32-bits integer. The first/ leftmost bit of the bit string contains
		the most significant bit of the MAC-I.
- RRC Message Sequence Number		Set to an arbitrarily selected integer between
		0 and 15
Security capability		
- Ciphering algorithm capability		
- UEA0		If the UE has indicated support for ciphering
		algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP
		COMPLETE message, this IE is set to
		TRUE.
- UEA1		If the UE has indicated support for ciphering
		algorithm UEA1 in the IE "security capability"
		in the RRC CONNECTION SETUP
		COMPLETE message, this IE is set to
- Spare		TRUE. Spare 2-15 = FALSE
- Spare - Integrity protection algorithm capability		000000000000000010B (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 COMPLETE message.Use the same
- Ciphering activation time for DPCH		ciphering algorithm specified in "ciphering Not Present
- Radio bearer downlink ciphering activation time		Not i lesent
info		
- Radio bearer activation time		
- RB identity		1
- RLC sequence number		Current RLC SN+2
- RB identity - RLC sequence number		Current RLC SN+2
- RB identity		3
- RLC sequence number		Current RLC SN + 2
- RB identity		4
- RLC sequence number		Current RLC SN + 2
Integrity protection mode info		
- Integrity protection mode command		Start Not Present
Downlink integrity protection activation info Integrity protection algorithm		Not Present UIA1
- Integrity protection agontum - Integrity protection initialisation number		SS selects an arbitrary 32 bits number for
		FRESH
CN domain identity		CS or PS
UE system specific security capability	A1	Not Checked
UE system specific security capability	A2	
- Inter-RAT UE security capability		GSM
- CHOICE system - GSM security capability		The indicated algorithms must be the same
Con Scounty Supublify		as the algorithms supported by the UE as
		indicated in the IE " UE system specific
		capability " in the RRC CONNECTION
		SETUP COMPLETE message.

Condition	Explanation
A1	UE not supporting GSM
A2	UE supporting GSM

Annex A (informative): Void

Annex B (informative): Void

Annex C (informative): Change history

Meeti ng-	Doc-1st-Level	CR	Rev	Subject	Cat	Version- Current	Version -New	Doc-2nd- Level
1st- Level								
TP-08				Approval of the specification		2.0.0	3.0.0	
	TP-000131	001		RRC Message Contents: RLCSize	С	3.0.1	3.1.0	T1-000190
	TP-000131	002		RRC Message Contents: RLCParam	С	3.0.1	3.1.0	T1-000191
	TP-000131	003		RRC Message Contents: PCPreamble	С	3.0.1	3.1.0	T1-000192
	TP-000131	004		RRC Message Contents: RBIdentity	С	3.0.1	3.1.0	T1-000193
	TP-000131	005		RRC Message Contents: TrCHParam	С	3.0.1	3.1.0	T1-000194
	TP-000131	006		RRC Message Contents: UECapability	С	3.0.1		T1-000195
TP-09	TP-000131	007		RRC Message Contents: RBMapping	С	3.0.1	3.1.0	T1-000196
	TP-000131	008		RRC Message Contents: PagingCause	С	3.0.1	3.1.0	T1-000197
	TP-000131	009		RRC Message Contents: CipheringAndIntegrity	С	3.0.1	3.1.0	T1-000198
TP-09	TP-000131	010		RRC Message Contents: RLCInfo	С	3.0.1	3.1.0	T1-000199
	TP-000131	011		RRC Message Contents: CompressedMode	С	3.0.1		T1-000200
	TP-000131	012		RRC Message Contents: SIB	С	3.0.1		T1-000201
	TP-000131	013		RRC Message Contents: PhyCH	D	3.0.1	3.1.0	T1-000202
	TP-000131	014		RRC Message Contents: Measurement	С	3.0.1	3.1.0	T1-000203
	TP-000131	015		RRC Message Contents: TFCS	С	3.0.1	3.1.0	T1-000204
	TP-000131	016		RRC Message Contents: DPCHFrameOffset	С	3.0.1	3.1.0	T1-000205
	TP-000131	017		Test USIM Parameters	F	3.0.1	3.1.0	T1-000215
	TP-000131	018		Correction to definition of the test algorithm for authentication (clause 8.1.2)	F	3.0.1	3.1.0	T1-000164
TP-09	TP-000131	019		Reference Radio Bearer Configurations	F	3.0.1	3.1.0	T1-000212
	TP-000131	020		TDD Single mode	F	3.0.1	3.1.0	T1-000220
	TP-000215	021		Common generic procedure for AS testing	В	3.1.0	3.2.0	T1-000294
	TP-000215	022		Requirements for the system simulator for support of Tcell parameter	F	3.1.0	3.2.0	T1-000303
TP-10	TP-000215	023		Minimum Performance Levels	F	3.1.0	3.2.0	T1-000306
	TP-000215	024		Downlink signal conditions and propagation conditions	D	3.1.0	3.2.0	T1-000307
	TP-000215	025		Updating 34.108 v3.1.0 to TDD single mode	F	3.1.0	3.2.0	T1-000281
	TP-000215	026		Application of integrity mode protection to signalling message by default	F	3.1.0	3.2.0	T1-000296
TP-10	TP-000215	027		Updates to the default message contents in clause 9	С	3.1.0	3.2.0	T1-000282
	TP-000215	028		Updates to System Information Block (SIB) and Master Information Block (MIB) messages	C	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-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		T1-010078
TP-11	TP-010018	033		Correction for Generic Setup Procedures (34.108 clause 7.2)	F	3.2.0	3.3.0	T1-010079
TP-11	TP-010018	034		Corrections for Test USIM Parameters (34.108 clause 8)	F	3.2.0	3.3.0	T1-010080
TP-11	TP-010018	035		Correction of clause number in TS 34.108.	D	3.2.0	3.3.0	T1-010081
	TP-010018	036		Update of authentication test algorithm	С	3.2.0	3.3.0	T1-010082
	TP-010018	037		Updates to clause 9 of TS 34.108 v3.2.0	F	3.2.0	3.3.0	T1-010084
	TP-010018	038		Updating to TDD single mode	F	3.2.0	3.3.0	T1-010088
TP-11	TP-010018	039		Simulated network environments for TDD mode (SIB)	F	3.2.0	3.3.0	T1-010089
TP-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 intended for functional testing	D	3.3.0	3.4.0	T1-010210
TP-12	TP-010118	043		Update of list of abbreviations	D	3.3.0	3.4.0	T1-010211
	TP-010118	044		Updates to clause 6.1 and 9	F	3.3.0	3.4.0	T1-010212
TP-12	TP-010118	045		Updates to clause 7.4	F	3.3.0		T1-010213
	TP-010118	046		clause 6.1: System Information Blocks for TDD Mode	F	3.3.0	3.4.0	T1-010214
TP-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
TP-13	TP-010215	050		Some corrections in clause 5	F	3.4.0	3.5.0	T1-010277
TP-13	TP-010215	051		Update to Scope Statement	F	3.4.0	3.5.0	T1-010278
TP-13	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

Meeti	Doc-1st-Level	CR	Rev	Subject	Cat	Version-	Version	Doc-2nd-
ng-				,		Current	-New	Level
1st-								
Level	TD 040045	05.4		Clause C.A. Default radio and distance for Circustina toota	_	2.4.0	2.5.0	T4 040004
	TP-010215 TP-010215	054 055		Clause 6.1: Default radio conditions for Signalling tests Correction of Radio Bearer Configurations for FDD Mode	F	3.4.0	3.5.0	T1-010281 T1-010282
	TP-010215	056		Correction of Radio Bearer Configurations for TDD Mode	F	3.4.0	3.5.0	T1-010282
	TP-010215	057		Changes to Signalling Radio Bearer (SRB) numbering	F	3.4.0	3.5.0	T1-010284
	TP-010215	058		Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1	F.	3.4.0	3.5.0	T1-010285
	TP-010215	059		Correction of system information block 5	F	3.4.0	3.5.0	T1-010286
	TP-010215	060		Introducing of 1.28 Mcps TDD Mode in clauses 4, 5 and 6	F	3.4.0	4.0.0	T1-010287
TP-13	TP-010215	061		Introduction of System Information Blocks for 1.28 Mcps TDD Mode	F	3.4.0	4.0.0	T1-010288
TP-13	TP-010215	062		Introduction of typical radio parameters for 1.28 McpsTDD	F	3.4.0	4.0.0	T1-010289
	TP-010215	063		Clause 6.11 RBs for RLC and PDCP testing	F	3.4.0	3.5.0	T1-010290
TP-14	TP-010285	065	1	Correction to 6.1 Contents of System Information Blocks	Α	4.0.0	4.1.0	T1-010475
TP-14	TP-010285	067	1	Corrections to clause 6.1, 7.4 and 9	Α	4.0.0	4.1.0	T1-010473
	TP-010258	069		Reference Radio Conditions	Α	4.0.0	4.1.0	T1-010461
	TP-010258	071		Modification of Test procedures for RF tests	Α	4.0.0	4.1.0	T1-010463
	TP-010258	073		Default message contents for RF tests	Α	4.0.0	4.1.0	T1-010465
	TP-010258	075		Correction to 6.10 Reference Radio Bearer configurations	Α	4.0.0	4.1.0	T1-010467
	TP-010258	077		Definition of default value of rate matching attribute	Α	4.0.0	4.1.0	T1-010469
	TP-010258	079	1	Update of clause 7.4 and 6.10	Α	4.0.0	4.1.0	T1-010471
	TP-010292	081		Correction on introduction of section 6.10	Α	4.0.0	4.1.0	 T4 000000
	TP-020038	083		Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)	А	4.1.0	4.2.0	T1-020092
	TP-020038	085		Update of reference radio conditions (Rel-4)	Α	4.1.0	4.2.0	T1-020098
TP-15	TP-020038	087		Update of system reference configurations and default messages (Rel-4)	Α	4.1.0	4.2.0	T1-020100
TP-15	TP-020038	089		Corrections to 34108-410	Α	4.1.0	4.2.0	T1-020102
TP-15	TP-020038	091		Introduction of new Reference RABs (Rel-4)	Α	4.1.0	4.2.0	T1-020195
TP-15	TP-020038	094		Update of SIBs for TDD (both modes) in TS34.108 (Rel4)	F	4.1.0	4.2.0	T1-020107
TP-15	TP-020038	095		Clarification of bit rate of Interactive/Background PS RAB function (Rel-4)	Α	4.1.0	4.2.0	T1-020184
				Correction of CR implementation errors in clauses: 6.10.2.2 and 6.10.2.4.1.58.2.1.1		4.2.0	4.2.1	
TP-16	TP-020141	108		Section 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD (3.84 Mcps and 1.28 Mcps)	F	4.2.1	4.3.0	T1-020289
TP-16	TP-020141	109		Correction to clause 7.3.3.4 RADIO BEARER SETUP message	Α	4.2.1	4.3.0	T1-020291
TP-16	TP-020141	110		Change of RM attribute of DL:3.4 kbps SRBs for DCCH in for REL4	A	4.2.1	4.3.0	T1-020292
TP-16	TP-020141	111		New additional RAB configuration (R1-020669) for REL4	Α	4.2.1	4.3.0	T1-020293
	TP-020141	112		Correction of Puncturing Limit for RABs for REL4	Α	4.2.1	4.3.0	T1-020294
	TP-020141	113		Test USIM	Α	4.2.1	4.3.0	T1-020295
	TP-020141	114		Section 6.1 (SIBs)Rel 4 (3.84 Mcps and 1.28 Mcps TDD)	F	4.2.1	4.3.0	T1-020296
TP-16	TP-020141	115		Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB	А	4.2.1	4.3.0	T1-020297
TP-16	TP-020141	116		Correction to default message in clause 9 for Rel4	Α	4.2.1	4.3.0	T1-020298
	TP-020141	117		Correction to clause 6.1 for Rel4	Α	4.2.1	4.3.0	T1-020299
	TP-020141	118		WCDMA1800 additions for Rel4	Α	4.2.1	4.3.0	T1-020300
TP-16	TP-020141	119		Section 9.1 Default message contents for TDD (3.84 Mcps and 1.28 Mcps) R4	F	4.2.1	4.3.0	T1-020301
TP-16	TP-020141	121		Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment	А	4.2.1	4.3.0	T1-020434
TP-17	TP-020184	123	-	Alignment of reference configurations on S-CCPCH with default system information messages	Α	4.3.0	4.4.0	T1-020503
TP-17	TP-020184	125	-	Addition of reference compressed mode pattern	Α	4.3.0	4.4.0	T1-020505
	TP-020184	127	-	Corrections to default message contents as T1S- 020347rev1	A	4.3.0	4.4.0	T1-020507
TP-17	TP-020184	129	-	Additional default message contents for RF Testing	Α	4.3.0	4.4.0	T1-020509
	TP-020184	131	-	Corrections related to SIB11, SIB12 and to the MEASUREMENT CONTROL message	A	4.3.0	4.4.0	T1-020527
TP-17	TP-020184	133	-	Corrections to clause 6.1 (T1S-020349rev1)	Α	4.3.0	4.4.0	T1-020530
	TP-020184	135	-	Introduction of reference configurations on S-CCPCH and	A	4.3.0	4.4.0	T1-020539
TP-17	TP-020184	137	-	PRACH with two interactive PS domain RABs Removal of reference radio bearer configurations for	Α	4.3.0	4.4.0	T1-020541
TD 4=	TD 000101	4.40		unidirectional streaming CS RABa above 64 kbps	_	400	4.4.0	T4 000570
	TP-020184 TP-020184	140 142	-	Some corrections and updates in clause 6.1 for TDD mode	F	4.3.0	4.4.0	T1-020576
			-	Inclusion of default message contents for RF in clause 9.2 for TDD mode		4.3.0	4.4.0	T1-020578
TP-18	TP-020293	144	-	Correction to default messages in 9.1 and 9.2	Α	4.4.0	4.5.0	T1-020658

Meeti ng- 1st- Level	Doc-1st-Level	CR	Rev	Subject	Cat	Version- Current		Doc-2nd- Level
	TP-020293	146	-	Corrections in the TDD test frequencies according to core specs	Α	4.4.0	4.5.0	T1-020674
TP-18	TP-020293	148	-	Addition of alternative configuration using Turbo Coding for Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	A	4.4.0	4.5.0	T1-020694
TP-18	TP-020293	150	-	Correction to content of sub-clause 6.10.2.	Α	4.4.0	4.5.0	T1-020709
TP-18	TP-020293	152	-	Correction to SIB 11/12 definition	Α	4.4.0	4.5.0	T1-020712
TP-18	TP-020293	154	-	Reference Measurement Channels	Α	4.4.0	4.5.0	T1-020768
	TP-020293	156	-	Transferring system information definition using ASN.1 description to PRD	Α	4.4.0	4.5.0	T1-020778
	TP-020293	158	-	Correction to RLC RAB TFCS	Α	4.4.0	4.5.0	T1-020780
	TP-020293	160	-	Default Message contents : Correction from CRs approved in RP17meeting	Α	4.4.0	4.5.0	T1-020783
	TP-020293	162	-	Corrections to SIB1 to SIB6	Α	4.4.0	4.5.0	T1-020799
	TP-020293	164	-	Correction to RAB configurations as revision of T1S020756	Α	4.4.0	4.5.0	T1-020801
	TP-020293	166	-	Parameter addition for Reference RABs based on LS from RAN2	Α	4.4.0	4.5.0	T1-020803
	TP-020293	168	-	Addition to clause 7.4 for multi call as T1S-020577rev2 (revision to T1S020820)	Α	4.4.0	4.5.0	T1-020818
	TP-020293	169	-	RAB Combinations for IMS Services	F	4.4.0	4.5.0	T1-020819
	TP-020293	171	-	Correction to Contents of the Scheduling Block Syste Information in clause 6.1.3.	F	4.4.0	4.5.0	T1-020844
	TP-030044	173	-	RAB Removal from Rel 4 TS 34.108 as T1S030002rev1	Α	4.5.0	4.6.0	T1-030037
	TP-030044 TP-030044	175 177	-	Combine all Radio Bearer Setup messages into one table Corrections to SB and SIB configurations in clause 6.1 as T1S030046rev1	A	4.5.0 4.5.0	4.6.0	T1-030040 T1-030042
TP-19	TP-030044	179	-	Correction to TS34.108 Rel-4 ; PAGING TYPE1 message (Packet in PS)	Α	4.5.0	4.6.0	T1-030044
TP-19	TP-030044	181	-	Clarification of autentication test algorithm and GSM cipher key	Α	4.5.0	4.6.0	T1-030046
TP-19	TP-030044	183	-	Addition of simulated network environment for inter-RAT test cases	А	4.5.0	4.6.0	T1-030048
TP-19	TP-030044	185	-	Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1.	Α	4.5.0	4.6.0	T1-030050
TP-19	TP-030044	187	-	Addition of default inter-RAT handover messages	Α	4.5.0	4.6.0	T1-030052
TP-19	TP-030044	189	-	Correction of activation time IEs in default messages	Α	4.5.0	4.6.0	T1-030054
	TP-030044	191	-	Correction to default SECURITY MODE COMMAND message	Α	4.5.0	4.6.0	T1-030056
	TP-030044	193	-	Addition of option for UL CM only in default reference CM patterns	Α	4.5.0	4.6.0	T1-030058
	TP-030044	195	-	Introduction of a reference RB configuration for RMC for BTFD tests (Rel4)	Α	4.5.0	4.6.0	T1-030060
	TP-030044	197	-	Rel4	A	4.5.0	4.6.0	T1-030063
	TP-030043	198	-	Introduction of Conversational PS RABs in Rel 4 TS 34.108 as T1S030003rev1	F	4.5.0	4.6.0	T1-030107
	TP-030043	200	-	Update of default parameters for 1 to 8 cell environments (TDD), clause 6.1.4, Rel 4	Α	4.5.0	4.6.0	T1-030208
	TP-030043	202	-	Update of Multi-cell environment for default radio conditions (TDD), clause 6.1.6 (Inclusion of cell 4), Rel 4	Α	4.5.0	4.6.0	T1-030210
	TP-030043 TP-030043	204	-	, ,	A	4.5.0 4.5.0	4.6.0	T1-030222 T1-030228
TP-20	TP-030098	208	-	Reinstate parameters for Interactive or background /UL:64 kbps / PS RAB	Α	4.6.0	4.7.0	T1-030437
TP-20	TP-030098	210	-	Correction to Figure 7.4.1.1 (Rel-4)	Α	4.6.0	4.7.0	T1-030483
	TP-030098	212	-	Update of SIB 11 and 12 in clause 6.1.0b in TS34.108 (TDD)	A	4.6.0	4.7.0	T1-030507
TP-20	TP-030098	214	-	Update of Default parameters for 1 to 8 cell environments in TS34.108 (TDD)	А	4.6.0	4.7.0	T1-030509
TP-20	TP-030098	216	-	Correction of default messages according to 25331 CR1823	Α	4.6.0	4.7.0	T1-030632
	TP-030098	218	-	Section 8.2: Definition of default values for authentication key K on test USIM	Α	4.6.0	4.7.0	T1-030644
TP-20	TP-030098	219	-	Update of Reconfiguration messages	Α	4.6.0	4.7.0	T1-030692
	TP-030098	221	-	Correction to RADIO BEARER RELEASE and RRC CONNECTION SETUP messages (Revision of T1-030569)	А	4.6.0	4.7.0	T1-030699
TP-20	TP-030140	226	-	Correction to default SIB5 (FDD)	Α	4.6.0.	4.7.0	T1-030745
TP-21	TP-030191	228	-	CR to 34.108, Rel-4, Clarification of seg_count in 6.1.0a.3	Α	4.7.0	4.8.0	T1-030827
TD 21	TP-030191	230	-	General correction in clause 7.4 for Common generic	Α	4.7.0	4.8.0	T1-030976

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ng- 1st- Level						Current	-New	Level
revei				procedures for AS testing				
TP-21	TP-030191	233	-	Incorrect activation time in CELL_FACH state .	Α	4.7.0	4.8.0	T1-031064
	TP-030191	235	-	Incorrect Transport Channel Parameters	Α	4.7.0	4.8.0	T1-031066
TP-21	TP-030191	237	-	Corrections to TS 34.108 common procedures in clause 7.4	Α	4.7.0	4.8.0	T1-031095
TD 24	TD 020404	220		of Rel-4 of TS 34.108	Λ.	470	400	T1-031151
	TP-030191 TP-030191	239 242	-	Removal of RLC AM in the Default Message Content CR 34.108 Rel-4: Manual attach in State 7 Registrated Idle Mode on CS/PS	A	4.7.0	4.8.0	T1-031151 T1-031175
TP-21	TP-030191	244	-	URA Identity in Cell Update Confirm and URA Update Confirm	Α	4.7.0	4.8.0	T1-031179
TP-21	TP-030191	246	-	CR to 34.108 R4; Correction to specification to reflect a change already approved in TTCN CR T1-030396	Α	4.7.0	4.8.0	T1-031241
TP-21	TP-030191	248	-	CR to 34.108 REL-4; Correction to section 7.3 Test procedures for RF test	Α	4.7.0	4.8.0	T1-031251
TP-21	TP-030191	240	-	RB configuration for the support of wideband AMR speech telephony services	F	4.7.0	4.8.0	T1-031154
TP-22	TP-030279	51		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031659
	TP-030279	52		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031660
	TP-030279	53		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031661
	TP-030279	54		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031662
	TP-030279	55		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031663
	TP-030279	56		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031664
	TP-030279	57		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031665
	TP-030279	58		Addition of Default message contents for TDD	F	4.8.0	4.9.0	T1-031666
	TP-030279	60		CR on PAGING TYPE 1, RRC CONNECTION REQUEST and RRC CONNECTION SETUP messages for MT RR Connection	A	4.8.0	4.9.0	T1-031596
TP-22	TP-030279	62		CR 34.108 Rel-4: EFRPLMNACT (RPLMN Last used Access Technology) removed	Α	4.8.0	4.9.0	T1-031381
TP-22	TP-030279	64		Update of default messages for RRC CONNECTION SETUP and SECURITY MODE COMMAND	Α	4.8.0	4.9.0	T1-031547
TP-22	TP-030279	66		Description and corrections of channels for minimum performance levels, TDD mode.	F	4.8.0	4.9.0	T1-031645
TP-22	TP-030279	68		Test frequencies of UMTS800MHz band VI	Α	4.8.0	4.9.0	T1-031555
TP-22	TP-030279	69		CR 34.108 Rel-4: Addition of Bearer combination for Interactive/background UL 64 kbps DL 768 kbps for Rel-5	F	4.8.0	4.9.0	T1-031441
TP-22	TP-030279	71		Update of generic test procedure for TX, RX and Performance Requirement	Α	4.8.0	4.9.0	T1-031610
TP-22	TP-030279	73		Introduction of generic test procedure for RRM handover test cases	Α	4.8.0	4.9.0	T1-031608
	TP-030279	75		Correction of CM TGD parameter	Α	4.8.0	4.9.0	T1-031591
TP-22	TP-030279	77		Corrections to default message contents of Radio Bearer Release	F	4.8.0	4.9.0	T1-031594
TP-22	TP-030279	79		Modification to default DPCCH_Power_offset value	Α	4.8.0	4.9.0	T1-031598
	TP-030279	83		Correction of TFCS for radio bearer combination 6.10.2.4.1.51b	A	4.8.0	4.9.0	T1-031527
TP-23	TP-040037	284	-	New Radio Bearer Setup (FDD) message for RF (Revision of T1-040258)	F	4.9.0	4.10.0	T1-040417
TP-23	TP-040037	287	-	Corrections to default message contents of RRC Connection Setup message -> 2nd change not implemented (not implementable)	A	4.9.0	4.10.0	T1-040080
TP-23	TP-040037	289	-	Correction to Default parameters for Cells 1 to 8 in MultiPLMN cell environments – Rel-4	Α	4.9.0	4.10.0	T1-040095
TP-23	TP-040037	291	-	Corrections to TDD HCR RABs	Α	4.9.0	4.10.0	T1-040103
	TP-040037	296	-	LCR Corrections to TDD RABs merge of T1-040104 , T1-040201 and T1-040203	F	4.9.0	4.10.0	T1-040299
TP-23	TP-040037	298	-	Correction to handling of Entered Parameter IE in default contents for Initial Direct Transfer	Α	4.9.0	4.10.0	T1-040411
TP-23	TP-040037	300	-	The diverse operation in TDD mode updating according to the core specification	Α	4.9.0	4.10.0	T1-040368
	TP-040037	302	-	correction of measurement control default message contents for TDD -> Not implemented (not implementable)		4.9.0	4.10.0	T1-040370
	TP-040037	303	-	correction of RADIO BEARER SETUP default message contents for 1.28 Mcps TDD	F	4.9.0	4.10.0	T1-040371
	TP-040037	304	-	Correction of RADIO BEARER RELEASE default message contents for TDD: AM or UM (1.28 Mcps TDD)	F	4.9.0	4.10.0	T1-040372
TP-23	TP-040037	305	-	Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD) -> Not implemented (not implementable)	F	4.9.0	4.10.0	T1-040373
TP-23	TP-040037	292	-	New I/B UL:64 DL:768 kbps PS RAB misplaced	F	4.10.0	5.0.0	T1-040109

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	TP-040037	294	-	Generic setup procedure and default message contents for HSDPA (as of T1-040069rev1)	F	4.10.0	5.0.0	T1-040271
TP-23	TP-040037	295	-	Baseline radio bearer combination for HSDPA support	В	4.10.0	5.0.0	T1-040273
TP-24	TP-040112	308	=	Correction to IEs 'START' and 'ul_CounterSynchronisationInfo'.	F	5.0.0	5.1.0	<u>T1-040512</u>
TP-24	TP-040112	309	-	Correction to HSDPA reference radio bearer configurations	F	5.0.0	5.1.0	T1-040522
TP-24	TP-040112	310	-	Addition of test procedure for HSDPA RF testing	F	5.0.0	5.1.0	T1-040546
TP-24	TP-040112	315	Ī	Corrections to default RRC messages	F	5.0.0	5.1.0	T1-040593
TP-24	TP-040112	318	1=	Change of default LAC/RAC for inter-RAT test cases	Α	5.0.0	5.1.0	T1-040656
	TP-040112	319	=	Contents of Physical Channel Reconfiguration message modified to incorporate transition to URA_PCH or CELL_PCH	F	5.0.0	5.1.0	<u>T1-040</u> 673
TP-24	TP-040112	320	-	Correction of reference test frequencies for UMTS800(band VI)	F	5.0.0	5.1.0	<u>T1-040701</u>
TP-24	TP-040112	325	-	Update of generic setup procedures in sections 7.3.4 and 7.3.5.	А	5.0.0	5.1.0	<u>T1-040754</u>
TP-24	TP-040112	326	=	Physical channel parameters for AM RLC 7 bit Length Indicator TestCases (Rel-5)	F	5.0.0	5.1.0	<u>T1-040902</u>
TP-24	TP-040112	327	=	Corrections to the default contents of Security Mode Command (Rel-5)	F	5.0.0	5.1.0	<u>T1-040903</u>
	TP-040112	330	-	Corrections to Contents of Scheduling Block 1 (FDD)	F	5.0.0	5.1.0	T1-040909
TP-24	TP-040112	331	-	Corrections to Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM	F	5.0.0	5.1.0	T1-040911
TP-24	TP-040112	332	-	Corrections to Contents of RRC CONNECTION SETUP message: UM	F	5.0.0	5.1.0	<u>T1-040913</u>
TP-24	TP-040112	333	-	RADIO BEARER SETUP message (FDD) for Test Loop Mode2.	F	5.0.0	5.1.0	<u>T1-040917</u>
TP-24	TP-040112	335	-	Changes to establish one version of 34.108 covering all releases	Α	5.0.0	5.1.0	<u>T1-040931</u>
TP-24	TP-040112	338	-	Addition of generic test procedure for AS test cases using the test loop	Α	5.0.0	5.1.0	T1-040934
TP-24	TP-040112	339	-	Corrections to LCR TDD RABs	F	5.0.0	5.1.0	T1-040935
TP-25	TP-040157	343	-	Correction to generic test procedure in section 7.4.2.6a.	F	5.1.0	5.2.0	T1-041040
TP-25	TP-040157	344	-	Addition of default messages for Signalling (FDD)	F	5.1.0	5.2.0	T1-041044
TP-25	TP-040157	345	-	Minor change to terminology in SRB tables of clause 6.10	F	5.1.0	5.2.0	T1-041140
TP-25	TP-040157	346	-	Default Message Content for System Information Block type 5 (FDD) and type 6 (FDD)	F	5.1.0	5.2.0	T1-041154
TP-25	TP-040157	347	-	Corrections to DCCH Transport Channel Parameters for HSDPA RAB	D	5.1.0	5.2.0	T1-041171
TP-25	TP-040157	348	-	Corrections to clause 9	F	5.1.0	5.2.0	T1-041223
TP-25	TP-040157	349	-	Corrections to HCR TDD RAB combinations	F	5.1.0	5.2.0	T1-041235
TP-25	TP-040157	350	-	Adding missing sub-clause 6.10.2.4.1.62.1	F	5.1.0	5.2.0	T1-041252
TP-25	TP-040157	351	-	Modification of AICH power offset in SysInfo 5 and 6.	F	5.1.0	5.2.0	T1-041253
	TP-040157	352	-	Correction to Default Message Content for Radio Bearer Setup Message.	F	5.1.0	5.2.0	T1-041259
TP-25	TP-040157	353	-	Correction to Default Message Content for Radio Bearer Reconfiguration Message for Condition A6	F	5.1.0	5.2.0	T1-041266
TP-25	TP-040157	354	-	CR to 34.108: introduction of default RB SETUP message from cell_FACH state for HSDPA	F	5.1.0	5.2.0	T1-041298
	TP-040157	355	-	Corrections to Contents of RADIO BEARER SETUP message: BTFD RMC	F	5.1.0	5.2.0	T1-041317
TP-25	TP-040157	340	-	Resolution of downlink code conflict between OCNS DPCH and S-CCPCH	F	5.1.0	5.2.0	T1-041327
TP-25	TP-040157	361	-	Correction to test procedure for test cases using Cell_PCH or URA_PCH state	F	5.1.0	5.2.0	T1-041346
TP-25	TP-040157	362	1-	Removal of DCCH dummy transmission for RF testing	F	5.1.0	5.2.0	T1-041350
TP-25	TP-040157	341	-	Correct title to test procedure for test cases using Cell_PCH or URA_PCH state	F	5.1.0	5.2.0	T1-041354
TP-25	TP-040157	363	-	Addition of intra frequency cell to cell environments	F	5.1.0	5.2.0	T1-041356
	TP-040157	342	-	Correct primary scrambling code usage in default message contents in section 9.2.1	F	5.1.0	5.2.0	T1-041365
TP-25	TP-040157	356	-	HSDPA downlink code allocation	F	5.1.0	5.2.0	T1-041374
	TP-040157	357	-	Correction to test procedure for test cases using CELL_FACH state	F	5.1.0	5.2.0	T1-041376
TP-25	TP-040157	358	-	Varying DPCH Power Offset according to data transmission rate	F	5.1.0	5.2.0	T1-041416
TP-25	TP-040157	359	-	Corrections to default message for RADIO BEARER SETUP message in section 9.2.1 (HSDPA RF)	F	5.1.0	5.2.0	T1-041418
TP-25	TP-040157	360	-	Test SIB schedule for two S-CCPCH or two PRACH in	F	5.1.0	5.2.0	T1-041422

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				34.108				
TP-25	TP-040157	364	-	Correction to Default Message Content for Radio Bearer Setup Message re: RM Attribute values	F	5.1.0	5.2.0	T1-041433

History

Document history		
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