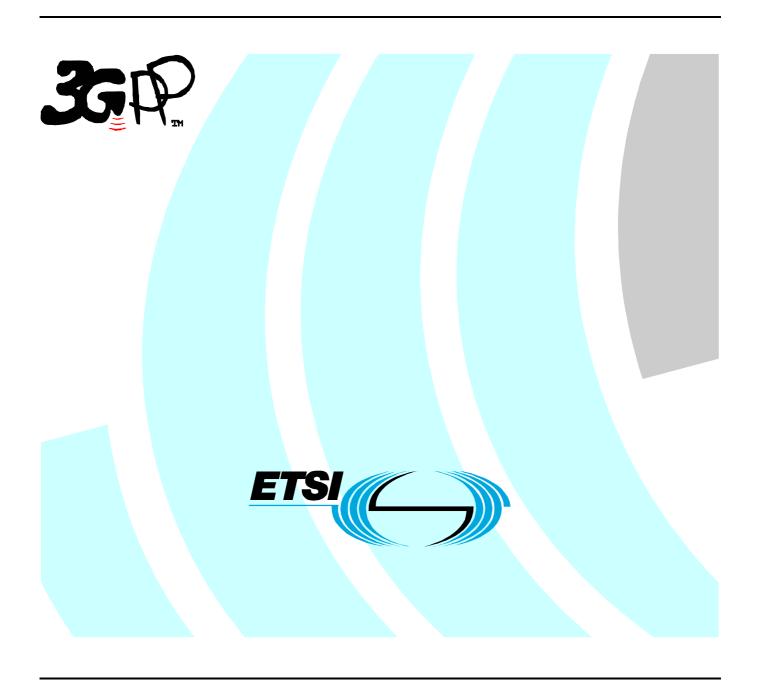
ETSI TS 134 108 V3.15.0 (2004-03)

Technical Specification

Universal Mobile Telecommunications System (UMTS); Common test environments for User Equipment (UE) conformance testing (3GPP TS 34.108 version 3.15.0 Release 1999)



Reference RTS/TSGT-0134108v3f0 Keywords UMTS

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

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Foreword

This Technical Specification (TS) has been produced by the 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*.

	•
[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.				
CCCH	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				
DCCIT	4	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				
		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				
		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				
		only.				
	T	raffic Channels				
DTCH	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.				
CTCH	1	Common Traffic Channel is a point-to-multipoint unidirectional				
		channel for transfer of dedicated user information for all or a				
		group of specified UEs.				

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

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. 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.			
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.			

4.2.1.3 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 and the raster spacing is 200KHz. Similarly the highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2,6 MHz.

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.

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] and the center frequencies for these channels are shifted 100kHz relative to the normal raster.

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	825	835.1MHz	1 050	880.1 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 table:

	Band 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		

5.2 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,			
	Used in Connected Mode	SIB4, SIB6, SIB12		
Mandatory	for FDD CPCH	SIB8, SIB9		
Mandatory for FDD DRAC		SIB10		
Mandatory for TDD		SIB14, SIB17		
Mandatory for LCS		SIB15, SIB15.1, SIB15.2, SIB15.3		
Mandatory for ANSI-41 system		SIB13, SIB13.1, SIB13.2, SIB13.3, SIB13.4		
Mandatory for InterSys HO		SIB16		
Mandatory 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

	to the ease of Colif Will the
- MIB value tag	1
- Supported PLMN types	
- PLMN type	GSM-MAP
- PLMN identity	
- MCC digit	Set to the same Mobile Country Codes stored in the test
	USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MNC digit	Set to the same Mobile Network Codesstored in the test
	USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- ANSI-41 Core Network information	Not Present
- References to other system information blocks	
and scheduling blocks	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value Tag
- Cell Value tag	
- Scheduling	
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	2
- SIB_POS offset info	Not Present – use default
- SIB and SB type	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	<u> </u>
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 1
- Scheduling information	,,,,,
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 2
- Scheduling information	,,,,,
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	20
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 3
- Scheduling information	,
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	52
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 4
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	38
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB and SB type	System Information Type 5
<u> </u>	VI

Contents of Scheduling Block 1 (FDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	6
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	,,,,,
- CHOICE Value tag	Not Present
- SEG COUNT	1
- SIB_REP	16
- SIB_POS	4
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 7
- Scheduling information	System miermanen Type T
- 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	System information Type 11
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_REI	26
- SIB_POS offset info	
- SIB_FOS dilset illid - SIB_OFF	2
- SIB_OFF	2
- SIB_OFF - SIB type SIBs only	System Information Type 12
- Scheduling information	Oystem information Type 12
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	
	64
- SIB_REP	36
- SIB_POS - SIB_POS offset info	Not Present
_	
- SIB type SIBs only	System Information Type 18

Contents of Scheduling Block 1 (TDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	128
- SIB_POS	3
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	
- CHOICE Value tag	Not Present

- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	2
- SIB POS offset info	Not Present
- SIB type SIBs only	System Information Type 7
- Scheduling information	,,,,,,
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_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	Cystem information Type TT
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG COUNT	3
- SIB_REP	64
- SIB_REF	13
- SIB_POS offset info	13
- SIB_FOS dilset illid	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Sib type Sibs only - Scheduling information	System information Type 12
- CHOICE Value tag	Cell Value tag
•	Cell value tag
- Cell Value tag - SEG_COUNT	1
- SIB REP	64
_	54
- SIB_POS SIB_POS affect into	Not Present - use default
- SIB_POS offset info	
- SIB type SIBs only	System Information Type 14
- Scheduling information	DLMM\\/alue to a
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	6
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18

6.1.0a.4 SIB special schedules

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

FFS

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

FFS

6.1.0b Default System Information Block Messages

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

- CN common GSM-MAP NAS system	
information	
- GSM-MAP NAS system information	00 01H
- CN domain system information	00 0111
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	COW WINT
- GSM-MAP NAS system information	05 00H
- CN domain specific DRX cycle length	7
coefficient	ľ
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	COW WINT
- GSM-MAP NAS system information	1E 01H
- CN domain specific DRX cycle length	7
coefficient	
- UE Timers and constants in idle mode	
-T300	4000 milliseconds
-N300	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 (4000 milliseconds: default value)
- N302	Not Present (3: default value)
- T304	Not Present (2000 milliseconds: default value)
- N304	Not Present (2: default value)
- T305	Not Present (30 minutes: default value)
- T307	Not Present (30 seconds: default value)
- T308	Not Present (160 milliseconds: default value)
- T309	Not Present (5 seconds: default value)
- T310	Not Present (160 milliseconds: default value)
- N310	Not Present (4: default value)
- T311	Not Present (2000 milliseconds: default value)
- T312	Not Present (1 seconds: default value)
- N312	Not Present (1: default value)
- T313	Not Present (3 seconds: default value)
- N313	Not Present (20: default value)
- T314	Not Present (12 seconds: default value)
- T315	Not Present (180 seconds: default value)
- N315	Not Present (1: default value)
- T316	Not Present (30 seconds: default value)
- T317	Not Present (180 seconds: default value)

Contents of System Information Block type 2

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

Contents of System Information Block type 3 (FDD)

- SIB4 indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	0000 0000 0000 0000 0000 00012
- 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 (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 U
- 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) (TDD)

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

OIDO in disease	TDUE
- 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	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	Common transport orialinois
- RLC size	168
	100
- Number of TB and TTI List	4
- Number of Transport blocks	
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	Complete recomingulation
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
	· · · · · · · · · · · · · · · · · · ·
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	11
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
	0 dB
- Power offset Pp-m	
Power offset Pp-mPRACH partitioningAccess Service Class	
- PRACH partitioning - Access Service Class	Not Present
- PRACH partitioning - Access Service Class - ASC Setting	Not Present
- PRACH partitioning - Access Service Class	
- PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode	FDD
 - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index 	FDD 0 (ASC#1)
 - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index 	FDD 0 (ASC#1) 7 (ASC#1)
 - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index 	FDD 0 (ASC#1) 7 (ASC#1) '1111'B
 - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index 	FDD 0 (ASC#1) 7 (ASC#1) '1111'B The first/ leftmost bit of the bit string contains the most
 - PRACH partitioning - Access Service Class - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index 	FDD 0 (ASC#1) 7 (ASC#1) '1111'B

- ASC Setting - Available signature End Index - Assigned Sub-Channel Number - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Persistence scaling factor - Persistence scaling fa	T	1
- Available signature Start Index - Available signature Start Index - Assigned Sub-Channel Number - ASC Setting - AVailable signature Start Index - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting	- ASC Setting	
- Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Persistence scaling factor - Persisten		
- Assigned Sub-Channel Number - ASC Setting - ASC Setting - ASC Setting - ASC Setting - CHOICE mode - Available signature Eart Index - Assigned Sub-Channel Number - Assigned Sub-Channel Number - ASC Setting - Persistence scaling factor - Persistence scaling factor - Persistence scaling factor - ASC Setting	 Available signature Start Index 	0 (ASC#3)
- ASC Setting - ASC Setting - CHOICE mode - Available signature End Index - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End	 Available signature End Index 	7 (ASC#3)
- ASC Setting - ASC Setting - CHOICE mode - Available signature End Index - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End	- Assigned Sub-Channel Number	'1111'B
- ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Assigned Sub-Channel Number - Assigned Sub-Channel Number - ASC Setting - Persistence scaling factor - Persistence scaling factor - AC-to-ASC mapping - AC-t		The first/ leftmost bit of the bit string contains the most
- ASC Setting - CHOICE mode - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature Start Index - Available signature End Index - Av		
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- CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - Persistence scaling factor - AC-to-ASC mapping - AC-to-ASC mappin		Not i resent
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- Available signature End Index - Assigned Sub-Channel Number - ASC Setting - CHOICE mode - Available signature Start Index - Assigned Sub-Channel Number - Rote of Setting - CHOICE mode - Available signature Start Index - Assigned Sub-Channel Number - Persistence scaling factor - Persistence scaling fa		
- Assigned Sub-Channel Number - ASC Setting - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - Persistence scaling factor - Persistence persistence - Pioto- Persistenc		
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- ASC Setting - CHOICE mode - Available signature Start Index - Assigned Sub-Channel Number - Persistence scaling factor - Persisten		
- ASC Setting - CHOICE mode - Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - Persistence scaling factor - AC-to-ASC mapping - AC-t		
- CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - Persistence scaling factor - 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) - (AC-0-ASC mapping - 5 (AC-10) - (AC-10-ASC mapping - 7 (AC-10		Not Present
- Available signature End Index - Available signature End Index - Assigned Sub-Channel Number - Persistence scaling factor - Ac-to-ASC mapping - AC-to-ASC m	- ASC Setting	
- Available signature End Index - Assigned Sub-Channel Number Persistence scaling factor - Persistence	- CHOICE mode	FDD
- Available signature End Index - Assigned Sub-Channel Number Persistence scaling factor - Persistence	- Available signature Start Index	0 (ASC#7)
- Assigned Sub-Channel Number - Persistence scaling factor - AC-to-ASC mapping scale - AC-to-ASC mapping - AC-to-ASC map		
Persistence scaling factor Persistence scaling f		
Persistence scaling factor Persistence scaling factor Persistence scaling factor O.9 (for ASC#2) Persistence scaling factor Persistence scaling factor O.9 (for ASC#3) O.9 (for ASC#3) O.9 (for ASC#3) O.9 (for ASC#3) O.9 (for ASC#4) Persistence scaling factor O.9 (for ASC#5) Persistence scaling factor O.9 (for ASC#6) Persistence scaling factor O.9 (for ASC#6) O.9 (for ASC#7) AC-to-ASC mapping O.9 (for ASC#7) AC-to-ASC#7 AC-to-ASC mapping O.9 (for ASC#6) O.9 (for ASC#7) AC-to-ASC#7 AC-to-ASC#1 O.9 (for ASC#6) O.9 (for ASC#6) O.9 (for ASC#6) O.9 (for ASC#7) AC-to-ASC#1 O.9 (for ASC#6) O.9 (for ASC#7) AC-to-ASC mapping O.9 (for ASC#7) AC-to-ASC mapping O.9 (for ASC#7) AC-to-ASC mapping O.9 (for ASC#7) O.9 (for ASC#6) O.9 (for ASC#7) O.9 (for ASC#7) O.9 (for ASC#6) O.9 (for ASC#7) O.9 (for ASC#6) O.9 (for ASC#7) O.9 (for ASC#6) O.9 (for ASC#7) O.9 (for ASC#6) O.9 (for ASC#6) O.9 (for ASC#6) O.9 (for ASC#6) O.9 (for ASC#7) O.9 (for ASC#6) O.9 (for ASC#7) O.9 (for ASC#6) O.9 (for ASC#7) O.9 (for ASC#0) O.9 (for ASC#7) O.9 (for ASC#0) O.9 (for ASC#7) O.9 (for ASC#7) O.9 (for ASC#7) O.9 (for ASC#0) O.9 (for	7.03igiled Odb Orlainier Namber	
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Persistence scaling factor		0.0 (for ASC#2)
Persistence scaling factor		
Persistence scaling factor		
Persistence scaling factor Persistence scaling factor AC-to-ASC mapping table AC-to-ASC mapping AC-to-	_	
- Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC		
- AC-to-ASC mapping	- Persistence scaling factor	
- AC-to-ASC mapping	- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping	- AC-to-ASC mapping table	
- AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Presemble Retrans Max - RACH transmission parameters - Mmax - RACH transmission parameters - Mmax - RACH transmission parameters - Mmax - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - FIXES - TRUE (default value) - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFC sepresentation - Complete reconfiguration		6 (AC0-9)
- 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 system information - 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 - Complete reconfiguration		
- AC-to-ASC mapping 2 (AC12) - AC-to-ASC mapping 2 (AC13) - AC-to-ASC mapping 1 (AC14) - AC-to-ASC mapping 0 (AC15) - CHOICE mode 5DD - Primary CPICH TX power 31 - Constant value -10 - PRACH power offset - Power Ramp Step 3dB - Preamble Retrans Max 4 - RACH transmission parameters - Manax 2 - NB01min 3 slot 10 slot - NB01min 10 slot - AICH info - Channelisation code 3 - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Spreading factor - Spreading factor - Code number - Pilot symbol existence - FICI existence - Fixed or Flexible position - Timing offset - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration - Complete rec		
- 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 - STTD indicator - FALSE - STTD indicator - AICH transmission timing - Secondary Scrambling code - STTD indicator - CHOICE mode - Signaling factor - Code number - Pilot symbol existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration		
- AC-to-ASC mapping		
- AC-to-ASC mapping - CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01 min - NB01 min - NB01 min - NB01 min - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - CHOICE TFCI signalling - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration		
- CHOICE mode - Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01 min - NB01 max - AICH transmission timing - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Strop indicator - Spreading factor - Code number - Pilot symbol existence - Fixed or Flexible position - Timing offset - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration		
- Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Serondary 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 - Complete reconfiguration		
- 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 info - CHOICE mode - STTD indicator - Secondary scrambling code - STTD indicator - Pilot symbol existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Information - Cholice TFCS representation - Complete reconfiguration		
- 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 - Spreading factor - Pilot symbol existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration		
- Power Ramp Step - Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration		-10
- Preamble Retrans Max - RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - TFCI existence - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration		
- RACH transmission parameters - Mmax - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Spreading factor - Code number - Pilot symbol existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation 2 3 slot 10 slot - Slot - Substituting a slot - Substituting a slot - Stable (all type a slot) - Complete reconfiguration	- Power Ramp Step	3dB
- 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 - TFCI - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration	- Preamble Retrans Max	4
- 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 - TFCI - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration	- RACH transmission parameters	
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation 3 slot 10 slot 10 slot 10 slot ABLSE FALSE 0 FALSE 64 1 (default value) Firesent Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		2
- NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - Sereading factor - Spreading factor - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Info solt 1 o slot 10 slot 10 slot 10 slot 11 slot 12 slot 13 slot 14 slot 14 slot 15 slot 16 slot 17 slot 18 slot 18 slot 18 slot 19 slot 18 slot 18 slot 19 slot 19 slot 10 slot 10 slot 10 slot 10 slot 11 slot 12 slot 14 slos 15 slos 16 slos 17 slos 18 slos 19 slos 19 slos 19 slos 10 slot	- NB01min	
- AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary complete reconfiguration - TPD - Not Present - TRUE (default value) - Flexible (default value) - Flexible (default value) - Truing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - Complete reconfiguration		
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation 3 FALSE 0 FDD Not Present FALSE 64 - TPUE (default value) Flexible (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
- 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 FALSE O FDD Not Present FALSE FALSE FALSE TRUE (default value) Flexible (default value) Flexible (default value) (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		3
- 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 0 FDD Not Present FALSE 64 1 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
- Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation FDD Not Present FALSE FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
- 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 FDD Not Present FALSE 64 1 FALSE TRUE (default value) Flexible (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		O
- 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 FDD Not Present FALSE 64 1 FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
- 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 Not Present FALSE - TRUE (default value) Flexible (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
- STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation FALSE TRUE (default value) Flexible (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
- Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation 64 1 1 FALSE TRUE (default value) Flexible (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
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- Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation FALSE TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration	- Spreading factor	64
- TFCI existence - Fixed or Flexible position - Timing offset - TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration	- Code number	1
- TFCI existence - Fixed or Flexible position - Timing offset - TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation TRUE (default value) Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration	- Pilot symbol existence	FALSE
- Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation Flexible (default value) Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		TRUE (default value)
- Timing offset - TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation Not Present Absence of this IE is equivalent to default value 0 (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration		
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- TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation (This IE is repeated for TFC number for PCH and FACH.) Normal Complete reconfiguration	ining chock	
- CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation Normal Complete reconfiguration	- TECS	
- TFCI Field 1 information - CHOICE TFCS representation Complete reconfiguration		
- CHOICE TFCS representation Complete reconfiguration		Inomial
		Complete recenfiguration
- IFCS complete reconfiguration information		Complete reconliguration
	- 1FG5 complete reconliguration information	J. Control of the con

- Channelisation code

	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	5
 Power offset information 	Not Present
- CTFC information	6
 Power offset information 	Not Present
- CTFC information	8
- Power offset information	Not Present
- FACH/PCH information	THE THOUSEN
- 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	1
- 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	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 Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
	130
- Rate matching attribute	
- CRC size	16bit
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- PICH info	
- CHOICE mode	FDD
	1 =

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

Contents of System Information Block type 5 (TDD)

nonte di Cyclom information Block typo d' (12	,
- 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	Not i resent
- Primary CCPCH Tx Power	30 dbm
- Alpha - PRACH Constant Value	(1/8) -10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	TDD
- CHOICE mode	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
 PRACH Channelisation Code List 	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	Common transport orianness
- 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
	1
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	Deference clause C.40 Devementor Cet
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	(4.00 (10)
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
 Available Channelisation codes indices 	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD '
	·

- CHOICE CTFC Size

```
- Available Channelisation codes indices
                                                Not Present (Default all)
  - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                null
 - ASC Settings
                                                 (ASC#3)
  - CHOICE mode
                                                 TDD
  - Available Channelisation codes indices
                                                Not Present (Default all)
  - CHOICE subchannel size
                                                Size1
   - Available Subchannels
                                                 null
 - ASC Settings
                                                 (ASC#4)
  - CHOICE mode
                                                TDD
  - Available Channelisation codes indices
                                                 Not Present (Default all)
  - CHOICE subchannel size
                                                 Size1
   - Available Subchannels
                                                null
 - ASC Settings
                                                (ASC#5)
  - CHOICE mode
                                                 TDD
  - Available Channelisation codes indices
                                                 Not Present (Default all)
  - CHOICE subchannel size
                                                 Size1
   - Available Subchannels
                                                 null
 - ASC Settings
                                                 (ASC#6)
  - CHOICE mode
                                                TDD
  - Available Channelisation codes indices
                                                Not Present (Default all)
  - CHOICE subchannel size
                                                 Size1
   - Available Subchannels
                                                 null
- Persistence scaling factors
- Access Service Class
 - Persistence scaling factor
                                                0.9 (for ASC#2)
 - Persistence scaling factor
                                                0.9 (for ASC#3)
                                                0.9 (for ASC#4)
 - Persistence scaling factor
 - Persistence scaling factor
                                                0.9 (for ASC#5)
 - Persistence scaling factor
                                                0.9 (for ASC#6)
- AC-to-ASC mapping
- AC-to-ASC mapping table
 - AC-to-ASC mapping
                                                6 (AC0-9)

    AC-to-ASC mapping

                                                5 (AC10)
                                                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
 - CHOICE mode
                                                TDD
 - Offset
 - Common timeslot info
  - 2<sup>nd</sup> interleaving mode
                                                Frame
  - TFCI coding
                                                 Reference clause 6.10 Parameter Set
  - Puncturing limit
                                                 Reference clause 6.10 Parameter Set
  - Repetition period
                                                 Not Present (MD "1")
                                                 Not present
  - Repetition length
 - Individual timeslot info
  - Timeslot number
                                                 Reference clause 6.10 Parameter Set
  - TFCI existence
  - Midamble Shift and burst type
    - CHOICE Burst Type
                                                 Type 1
    - Midamble Allocation Mode
                                                Default midamble
    - Midamble configuration burst type 1 and 3
    - Midamble Shift
                                                Not Present
 - Code List
  - Channelisation Code
                                                 Reference clause 6.10 Parameter Set
- TFCS
                                                 (This IE is repeated for TFC number for PCH and
                                                 FACH.)
 -CHOICE TFCI signalling
 - Normal
 - TFCI Field 1 information
  - CHOICE TFCS representation
                                                 Complete reconfiguration
  - TFCS complete information
```

Number of bits used must be enough to cover all

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

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

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 ALI

Reference clause 6.10 Parameter Set 13 (for FACH)

FALSE (FACH)

Common transport channels

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

ALL

Reference clause 6.10 Parameter Set 14 (for FACH)

FALSE

TDD

Type 1 0 16/16 64/2 0 4

4

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) (TDD)

DIOLED "	T. ID
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List	
- CHOICE SF	SF8
- Choice Sr - Channelisation Code List	550
	0/4
- Channelisation Code	8/1 8/2
- Channelisation Code	157
- 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	D () 0 (0 D) () 0 (
- 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 ´
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
S. TOTOL MOGO	1.55

- Available Channelisation codes indices

- CHOICE subchannel size

- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- Persistence scaling factors
- Access Service Class
- Persistence scaling factor
- AC-to-ASC mapping
- CHOICE mode
- Secondary CCPCH system information
- Secondary CCPCH system information
- Secondary CCPCH info
- CHOICE mode
- Offset
- Common timeslot info
- 2nd interleaving mode
- TFCI coding
- Puncturing limit
- Repetition period
- Repetition length
- Individual timeslot info
- Timeslot number
- TFCI existence
- Midamble Shift and burst type
- CHOICE Burst Type
- Midamble Allocation Mode
- Midamble configuration burst type 1 and 3
- Midamble Shift
- Code List
- Channelisation Code
- TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS complete reconfiguration information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- FACH/PCH information
- TFS

Not Present (Default all)

Size1 null (ASC#2) TDD

Not Present (Default all)

Size1 null (ASC#3) TDD

Not Present (Default all)

Size1 null (ASC#4) TDD

Not Present (Default all)

Size1 null (ASC#5) TDD

Not Present (Default all)

Size1 null (ASC#6) TDD

Not Present (Default all)

Size1 null

0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) Not Present TDD (no data)

TDD ∩

Not Present (MD "Frame")

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Not Present (MD "1")

Not present

1

Reference clause 6.10 Parameter Set

Type 1

Default midamble

4

Not Present

Reference clause 6.10 Parameter Set

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

Complete reconfiguration

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

Reference clause 6.10 Parameter Set

Not Present

(PCH)

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

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

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

TDD

ALL

Reference clause 6.10 Parameter Set

14 (for FACH)

FALSE

FALSE

ITDD

Type 1

16/16

64/2

0

4 4

Not Present

Contents of System Information Block type 7 (FDD)

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

Contents of System Information Block type 7 (TDD)

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

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

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

- SIB12 indicator	A1, A2	TRUE
- FACH measurement occasion info	'	Not Present
- Measurement control system information		· · · · · · · · · · · · · · · · · ·
		NI (
- Use of HCS		Not used
- Cell selection and reselection quality measure		CPICH RSCP
- Intra-frequency measurement system	A1, A2	
information	,	
		Not Droport
- Intra-frequency measurement identity		Not Present
		Absence of this IE is equivalent to default value 1
- Intra-frequency cell info list		
- CHOICE intra-frequency cell removal		Not present
Of 1010E milital inequality deli femioval		(This IE shall be ignored by the UE for SIB11)
		(This is shall be ignored by the OE for Sibir)
- New intra-frequency cells		
- Intra-frequency cell id		1
- Cell info		
- Cell individual offset		Not propert
- Cell Individual offset		Not present
		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not Present
- Read SFN indicator		FALSE
- CHOICE mode		FDD
		רטט
- Primary CPICH info		
 Primary scrambling code 		Refer to clause titled "Default settings for cell No.1
i i		(FDD)" in clause 6.1.4
- Primary CPICH TX power		Not Present
- TX Diversity indicator		FALSE
 Cell Selection and Re-selection info 		Not Present
		(The IE shall be absent as this is the serving cell)
- Intra-frequency cell id		2
		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		
- Primary scrambling code		Refer to clause titled "Default settings for cell No.2
1 milary scrambling 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
Con Colocion and the colocion into		
		For neigbouring cell, if HCS is not used and all the
		parameters in cell selection and re-selection info are
		Default value, this IE is absent.
- Intra-frequency cell id		3
- Cell info		
- Cell IIIIO		Same content as specified for Intra-frequency cell id=2
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default
		settings for cell No.3 (FDD)" in clause 6.1.4
- Intra-frequency cell id	A1	7
	Δ'	·
- Cell info		Same content as specified for Intra-frequency cell id=2
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default
		settings for cell No.7 (FDD)" in clause 6.1.4
Intro fraguancy call id		
- Intra-frequency cell id		8
- Cell info		Same content as specified for Intra-frequency cell id=2
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default
		settings for cell No.8 (FDD)" in clause 6.1.4
- Cells for measurement	A1, A2	Not Present
- Intra-frequency measurement quantity	A1, A2	
- Filter coefficient	,	Not present
0110105		Absence of this IE is equivalent to the default value 0
- CHOICE mode		FDD
- Measurement quantity		CPICH RSCP
- Intra-frequency reporting quantity for RACH		Not Present
Reporting		
Maximum number of reported calls on BACL		Not Procent
- Maximum number of reported cells on RACH		Not Present
- Reporting information for state CELL_DCH		

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

Mode

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

FALSE

TRUE

FDD

FALSE TRUE

FALSE

TRUE

TRUE

FDD

FALSE TRUE

FALSE

Not Present

Acknowledged mode RLC

Event trigger

Intra-frequency measurement reporting criteria

3 kinds

1a

Not Present

Monitored set cells

5dB

Not Present

1.0

0.0

Not Present

2

Not Present

640

4000

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

3

1b

Active set cells

Not Present

5dB

Not Present

1.0

0.0

Not Present

Not Present

Not Present

640

Not Present Not Present

Report cell within active set and/or monitored set cells

3

1c

Not Present

on used frequency

Not Present

Not Present Not Present

Not Present

0.0

Not Present

Not Present

3

	•	
- Time to trigger		640
- Amount of reporting		4
- Reporting interval		4000
- Reporting cell status		Donast cell within active act and/on acceptance dact cells
- CHOICE reported cell		Report cell within active set and/or monitored set cells
Maximum number of reported cells		on used frequency
 Maximum number of reported cells Inter-frequency measurement system 	A4 A2	3
information	A1, A2	
- Inter-frequency cell info list		
- CHOICE Inter-frequency cell removal		Not present
Official mediciney confermed		(This IE shall be ignored by the UE for SIB11)
- New inter-frequency cells		(This is dian so ignored by the Os for Olbit)
- Inter frequency cell id		4
- Frequency info		·
- CHOICE mode		FDD
- UARFCN uplink(Nu)		Not present
		Absence of this IE is equivalent to apply the default
		duplex distance defined for the operating frequency
		according to 25.101
 - UARFCN downlink(Nd) 		Reference to table 6.1.2 for Cell 4
- Cell info		
 Cell individual offset 		Not present
- · · · · · · · · · · · · · · · · · · ·		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not present
- Read SFN indicator		FALSE
- CHOICE mode		FDD
- Primary CPICH info		Poter to played titled "Default cottings for call No.4
- Primary scrambling code		Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4
- Primary CPICH Tx power		Not present
- TX Diversity Indicator		FALSE
- Cell Selection and Re-selection Info		Not present (same values as for serving cell applies)
- Inter frequency cell id		5
- Frequency info		Not Present
a requestion and		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
Q III: (previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell id=4
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4
- Cell for measurement		Not present
- Inter-RAT measurement system information	A1	Not Present
- Inter-RAT measurement system information	A2	THOUTHOUSEN
- Inter-RAT cell info list		
- CHOICE Inter-RAT cell removal		Not Present
		(This IE shall be ignored by the UE for SIB11)
- New inter-RAT cells		
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
- GSM		
- Cell individual offset		0 Not December
- Cell selection and re-selection info		Not Present
- BSIC		Peferance to table 6.4.40 for Call 0
- 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
5	1	

- 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 information	A1, A2	Not Present

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

Contents of System Information Block type 11 (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.

- SIB 12 Indicator	A1, A2	TRUE
- FACH measurement occasion info	, , , , , , , , , , , , , , , , , , ,	Not Present
- Measurement control system information		11001111000111
- Use of HCS		Not used
- Cell selection and reselection quality measure		(no data)
- Intra-frequency measurement system	A1, A2	(no data)
information	Α1, ΑΖ	
- Intra-frequency measurement identity		Not Present
- Intra-frequency measurement identity		Absence of this IE is equivalent to default value
- Intra-frequency cell info list		Absence of this IL is equivalent to default value
- CHOICE intra-frequency cell removal		Not present
- Choice initia-frequency cell femoval		(This IE shall be ignored by the UE for SIB11)
Now intro-fraguency calls		(This is shall be ignored by the OE for Sibir)
- New intra-frequency cells		4
- Intra-frequency cell id		
- Cell info - Cell individual offset		Not proport
- Ceii individuai 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
- Timeslot number		Not Present
- Burst type		Not Present
- Cell Selection and Re-selection info		Not Present
		(The IE shall be absent as this is the serving cell)
- Cells 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
- Proposed TSGN reporting required
- P-CCPCH RSCP reporting indicator
- Pathloss reporting indicator
- Reporting quantities for monitored set cells
- Cell synchronisation information reporting indicator
 - Cell identity reporting indicator
 - CHOICE mode
 - Timeslot ISCP reporting indicator
 - Proposed TSGN reporting required
 - P-CCPCH RSCP reporting indicator
 - Pathloss reporting indicator
 - Reporting quantities for detected set cells
- Measurement reporting mode
- Measurement Report Transfer Mode
- Periodical Reporting / Event Trigger

Reporting Mode

- -CHOICE report criteria
- Intra-frequency measurement reporting
 - Parameters required for each event
 - Intra-frequency event identity
 - Triggering condition1
 - Triggering condition2
 - Reporting Range
 - cells forbidden to affect reporting range
 - W(optional in case of 1a,1b)
 - Hysteresis
 - Threshold used frequency
 - Reporting deactivation threshold
 - Replacement activation threshold
 - Time to trigger
 - Amount of reporting
 - Reporting interval
 - Reporting cell status
 - CHOICE reported cells
 - Maximum number of reported cells

- Inter-frequency measurement system information

- Inter-frequency cell info list
- CHOICE Inter-frequency cell removal
- New inter-frequency cells
- Inter frequency cell id
- Frequency info
- CHOICE mode
- UARFCN (Nt)
- Cell info
- Cell individual offset
- Reference time difference to cell
- Read SFN indicator
- CHOICE mode
- Primary CCPCH info
- Primary CCPCH Tx power
- TX Diversity Indicator
- Cell Selection and Re-selection Info
- Inter frequency cell id
- Frequency info
- Cell info
- Inter frequency cell id

FALSE

FALSE TRUE

FALSE

FALSE

TRUE

TDD

FALSE

FALSE

TRUE

FALSE Not Present

Acknowledged mode RLC

Event trigger

1q

Not Present

Not Present

Not Present

Not Present

Not Present

0.0

Not Present

Not Present

640

4000

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

A1. A2

Not present

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

Reference to table 6.1.2 for Cell 4

Not present

Absence of this IE is equivalent to default value 0dB

Not present

FALSE

TDD

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

(TDD)" in clause 6.1.4

Not present

FALSE

Not present (same values as for serving cell applies)

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 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

- Frequency info		Not Present
- Cell info		Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (TDD)" in clause 6.1.4
- Cell for measurement		Not present
- Inter-RAT measurement system information	A1	Not Present
- Inter-RAT measurement system information	A2	
- Inter-RAT cell info list		
- CHOICE Inter-RAT cell removal		Not Present
		(This IE shall be ignored by the UE for SIB11)
- New inter-RAT cells		
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
- GSM		
- Cell individual offset		0
- Cell selection and re-selection info		Not Present
- BSIC		
- Base transceiver Station Identity Code		Reference to table 6.1.10 for Cell 9
(BSIC)		
- 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		

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 (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	
- NAS (ANSI-41) system information	T.B.D
- CN domain specific DRX cycle length	7
coefficient	
- CN Domain system information	For Circuit-Switched domain
- CN domain identity	CS
- CHOICE CN Type	ANSI-41
- CN domain specific NAS system information	
- NAS (ANSI-41) system information	T.B.D
- CN domain specific DRX cycle length	7
coefficient	
- UE timers and constants in idle mode	
- T300	400 milliseconds
- N300	3
- T312	10 seconds
- N312	200
- Capability update requirement	
- UE radio access FDD capability update	TRUE
requirement	
- UE radio access TDD capability update	FALSE
requirement	
- System specific capability update requirement	Not Present
list	

Contents of System Information Block type 14 (TDD)

- Individual Timeslot interference list	
- Individual Timeslot interference	
- Timeslot number	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 (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
- 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	
- 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	
	4
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	10
	AL I
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS complete reconfiguratio information	g
- CHOICE CTFC Size	2 hit
	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
	11011100011
- ASC Setting	EDD.
- 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-Channel Number	
	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
- Persistence scaling factor - Persistence scaling factor
- AC-to-ASC mapping table
- AC-to-ASC mapping
- AC-to-ASC mapping
- AC-to-ASC mapping AC-to-ASC mapping
- AC-to-ASC mapping
- AC-to-ASC mapping
- AC-to-ASC mapping
- CHOICE mode
- Primary CPICH TX power
- Constant value
- PRACH power offset
- Power Ramp Step
- Preamble Retrans Max
- RACH transmission parameters
- Mmax
- NB01min
- NB01max
- AICH info
- Channelisation code
- STTD indicator
- AICH transmission timing
- Secondary CCPCH system information
- Secondary CCPCH info
- CHOICE mode
- Secondary scrambling code
- STTD indicator
- Spreading factor
- Code number
- Pilot symbol existence
- TFCI existence
- Fixed or Flexible position
- Timing offset
- TFCS
- CHOICE TFCI signalling
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS complete reconfiguration information
- CHOICE CTFC Size

FDD

0 (ASC#3)

7 (ASC#3) '1111'B

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

FDD

0 (ASC#5)

7 (ASC#5)

'1111'B

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

Not Present

FDD

0 (ASC#7)

7 (ASC#7)

'1111'B

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

- 0.9 (for ASC#2)
- 0.9 (for ASC#3)
- 0.9 (for ASC#4)
- 0.9 (for ASC#5)
- 0.9 (for ASC#6)
- 0.9 (for ASC#7)
- 6 (AC0-9)
- 5 (AC10)
- 4 (AC11)
- 3 (AC12)
- 2 (AC13) 1 (AC14)
- 0 (AC15)
- FDD
- 31 -10

3dB

4

3 slot 10 slot

3

FALSE

(For 2 SCCPCHs) (SCCPCH for standalone PCH)

FDD Not Present

FALSE 128

FALSE

FALSE Fixed

30

Normal

Complete reconfiguration

2 bit

- CTFC information - Power offset information - CTFC information - Power offset information - FACH/PCH information - 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 - CTFC information - Power offset information - CTFC information - Power offset information - CTFC information

- Power offset information - 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 Not Present

(PCH)

Common transport channels

240

0 FDD ALL

10 ms Convolutional 230 16 bit 12 (for PCH) **FALSE**

FDD 2 18 **FALSE**

(SCCPCH including two FACHs)

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

Absence of this IE is equivalent to default value "TRUE"

Not Present

Absence of this IE is equivalent to default value "Flexible"

Not Present

Absence of this IE is equivalent to default value 0

Normal

Complete reconfiguration

4 bit 0 Not Present Not Present

Not Present

Not Present

Not Present

(FACH)

Common transport channels

0 1 2 **FDD** ALL 10 ms

168

- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
0.10 0.00	1 12 211
- 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
0.10 0.00	1
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

<FFS>

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

- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- PRACH system information list	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>

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 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
	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
, longing out onamor rambor	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 - CHOICE mode
- ASC Setting - ASC Setting - 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 - 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 conplete reconfiguration information

- CHOICE CTFC Size

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

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

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

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

Not Present

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

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

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

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

3dB 4

3 slot 10 slot

3 **FALSE**

(For 2 SCCPCHs)

(SCCPCH for standalone PCH)

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

Normal

Complete reconfiguration

2 bit

- CHOICE CTFC Size

CTFC informationPower offset information

CTFC informationPower offset information

- CTFC information
- Power offset information

7 15 34.108 version 3.15.0 Release 1999	58 ETSLIS 134 108 V3.15.0 (2004
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	/ · · = -
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	1
- 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	Not Present
	Absence of this IE is equivalent to default value "TRUE"
- Fixed or Flexible position	Not Present
. Med et l'ionible perinen	Absence of this IE is equivalent to default value "Flexible"
- Timing offset	Not Present
Timing oneot	Absence of this IE is equivalent to default value 0
- TFCS	7 to correct of this 12 to equivalent to delault value o
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	1
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	
CHOICE CTEC Size	2 hit

2 bit 0 Not Present 1 Not Present 2 Not Present

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

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

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

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

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

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

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

Contents of Scheduling Block 1 (FDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	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	System mismission Type 1.
- 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	System miorination Type 12
- 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
CID type CIDS Only	System intermediation Type 10

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	FALSE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
	Not present
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- 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
- Number of TB and TTI List	300
	4
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Tromai
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	Complete reconliguration
	0.1:4
- 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 Start Index - 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 44	significant bit of the Assigned Sub-Channel Number.
- ASC Setting	Not Present

- ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index - Assigned Sub-Channel Number - ASC Setting - ASC Setting
- CHOICE mode - Available signature Start Index
- Available signature End Index - Assigned Sub-Channel Number
- ASC Setting - ASC Setting - CHOICE mode
- Available signature Start Index - Available signature End Index
- Assigned Sub-Channel Number
- Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - AC-to-ASC mapping AC-to-ASC mapping AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping - AC-to-ASC mapping
- Primary CPICH TX power - Constant value - PRACH power offset - Power Ramp Step - Preamble Retrans Max
- RACH transmission parameters
- Mmax - NB01min - NB01max - AICH info

- CHOICE mode

- Channelisation code - STTD indicator
- AICH transmission timing
- Secondary CCPCH system information
- Secondary CCPCH info - CHOICE mode
- Secondary scrambling code
- STTD indicator - Spreading factor - Code number - Pilot symbol existence
- TFCI existence
- Fixed or Flexible position - Timing offset
- TFCS
- CHOICE TFCI signalling - TFCI Field 1 information
- CHOICE TFCS representation
- TFCS complete reconfiguration information
- CHOICE CTFC Size

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

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

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 - Timing offset
- Fixed or Flexible position
- 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

Not Present

(PCH)

Common transport channels

240

0 FDD ALL

10 ms Convolutional

230 16 bit 12 (for PCH) **FALSE**

FDD 2 18 **FALSE**

(SCCPCH including two FACHs)

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

Absence of this IE is equivalent to default value "TRUE"

Not Present

Absence of this IE is equivalent to default value "Flexible"

Not Present

Absence of this IE is equivalent to default value 0

Normal

Complete reconfiguration

4 bit 0

Not Present

Not Present

Not Present

Not Present

Not Present

(FACH)

Common transport channels

168

0 1 2

FDD

ALL

10 ms

- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- CTCH indicator
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- Number of Transport blocks
- CHOICE Mode
- 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
- 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
- CTFC information - Power offset information
- CTFC information
- Power offset information
- CTFC information
- Power offset information
- CTFC information
- Power offset information - FACH/PCH information
- 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

Convolutional

220

16 bit

13 (for FACH)

FALSE

(FACH)

Common transport channels

360

0

FDD

ALL

10 ms Turbo

130 16bit

14 (for FACH)

FALSE

(SCCPCH including two FACHs)

FDD Not Present **FALSE** 64

FALSE

Not Present

Absence of this IE is equivalent to default value "TRUE"

Not Present

Absence of this IE is equivalent to default value "Flexible" 90

Normal

Complete reconfiguration

4 bit n

Not Present

Not Present

2

Not Present

Not Present

Not Present

(FACH)

Common transport channels

168

0 1

FDD ALL

10 ms

Convolutional

1/2 220

16 bit

16 (for FACH) **FALSE**

ETSI

- 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>

6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

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

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

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

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

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

Default settings for cell No.1 (TDD):

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

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

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

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

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

Cell No.2

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

Cell identity	0000 0000 0000 0000 0000 0010B	
URA identity	0000 0000 0000 0001B	

Default settings for cell No.2 (FDD):

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

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

- Intra-frequency measurement system	A1, A2	
information	,	
- New intra-frequency cells - Intra-frequency cell id - 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
- Intra-frequency cell id - Cell info		Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in 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		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	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
- Inter-frequency measurement system information	A1, A2	
- New inter-frequency cells - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Inter frequency cell id - Frequency info - Cell info - Cell info - Cell info - Cell info	A2	4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b 5 Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b 6 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 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 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.2 (TDD):

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

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

- Intra-frequency measurement system information	
New intra-frequency cells	
- Intra-frequency cell id	2
- Cell info	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4
- Intra-frequency cell id	1
- Cell info	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in
	clause 6.1.4
- Intra-frequency cell id	3
- Cell info	Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	7
- Cell info	Same content as specified for Intra-frequency cell id=7 in
1.4.7	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
- Gen inio	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.3

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

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

Default settings for cell No.3 (FDD):

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

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

- Intra-frequency measurement system information	A1, A2	
New intra-frequency cells - Intra-frequency cell id - Cell info		3 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that
- Intra-frequency cell id - Cell info		value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4 1 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
- Intra-frequency cell id - Cell info		cell No.1 (FDD)" in clause 6.1.4 2 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause
- Intra-frequency cell id - Cell info	A1	6.1.0b 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
- Inter-frequency measurement system information	A1, A2	
- New inter-frequency cells - Inter frequency cell id - Frequency info		4 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue
- Cell info		6.1.0b Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id - 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> - GSM		9 GSM Same content as specified for inter-RAT cell id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-RAT cell id - CHOICE <i>Radio Access Technology</i>		10 GSM

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

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

Default settings for cell No.3 (TDD):

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

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

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

· ,	1	N (D)
- 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	014400 0.1.1
intel RAT centillo list	\ \Z	
- New inter-RAT cells		
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
- GSM		Same content as specified for inter-RAT cell
- GOIVI		id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-RAT cell id		10 10 11 10 11 11 11 12 13 14 15 15 15 15 15 15 15
- CHOICE Radio Access Technology		GSM
- GSM		
- GOIVI		Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b
		iu=10 iii 3ib11 for Ceil 1 in Sub-clause 6.1.0b

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

Default settings for cell No.4 (TDD):

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

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

- Intra-frequency measurement system information - New intra-frequency cells - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (TDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (TDD)" in clause 6.1.4 - Intra-frequency cell id - Cell info Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4 - Inter-frequency measurement system information - New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN downlink(Nt) Reference to table 6.1.7 for Cell 1 - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (TDD)" in clause 6.1.4 - Inter-frequency cell id - Frequency info Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4 - Inter-frequency cell id Not Present - Frequency info Absence of this IE is equivalent to value of the previous "frequency info" in the list. - Cell info Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4 - Inter-frequency cell id - Frequency info Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in - Cell info SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.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		5 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.5 (FDD)" in clause
- Intra-frequency cell id - Cell info		6.1.4 4 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1.4
- Intra-frequency cell id - Cell info		6 Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1.4
- Inter-frequency measurement system information	A1, A2	
- New inter-frequency cells - Inter-frequency cell id - Frequency info - UARFCN uplink(Nu)		Not present Absence of this IE is equivalent to apply the
- UARFCN downlink(Nd) - Cell info		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
- Inter-frequency cell id - Frequency info		settings for cell No.1 (FDD)" in clause 6.1.4 2 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.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 - Frequency info	A1	7 Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.

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

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

Default settings for cell No.5 (TDD):

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

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

- Intra-frequency measurement system information	
- New intra-frequency cells	
- Intra-frequency cell id	5
	5
- Cell info	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.5
	(TDD)" in clause 6.1.4
Intro fraguency call id	(100) III clause 0.1.4
- 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	6
- 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
	olddod o'r r
- Inter-frequency measurement system	
information	
information	
- New inter-frequency cells	
 Inter-frequency cell id 	1
- Frequency info	
- UARFCN downlink(Nt)	Reference to table 6.1.7 for Cell 1
- Cell info	
- Cell Inio	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
- Frequency into	
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.2 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	3
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
- Cell IIIIO	
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.3 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	7
	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.7 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	8
- Frequency info	Not Present
1 104401103 11110	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
- Inter-frequency cell id - Frequency info - Cell info		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
- Inter-frequency cell id - Frequency info		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 3 Not Present
- Cell info		Absence of this IE is equivalent to value of the previous "frequency info" in the list. Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4
- Inter-frequency cell id	A1	7

- Frequency info		Not Present
		Absence of this IE is equivalent to value of the
		previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency
		cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary
		scrambling code shall be according to clause
		titled "Default settings for cell No.7 (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	
Nowinter DAT calls		
- 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

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 - 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 - 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.5 (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 (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 (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.7

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

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

Default settings for cell No.7 (FDD):

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

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

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

Default settings for cell No.7 (TDD):

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

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

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

Cell No.8

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

Cell identity	0000 0000 0000 0000 0000 1000B
URA identity	0000 0000 0000 0100B

Default settings for cell No.8 (FDD):

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

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

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

Default settings for cell No.8 (TDD):

Downlink input level	Reference clause 6 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6 Parameter Set
Cell Channel Description	
- 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
lates for successional fel	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	
mormation	
- New inter-frequency cells	
- Inter frequency cell id	4
- Frequency info	Same content as specified for Inter-frequency cell id=4 in
Troquency mus	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
. 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
• •	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=6 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b

Cell No.9

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

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

Default settings for cell No.9 (GSM):

See table 6.1.10

Cell No.10

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

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

Default settings for cell No.10 (GSM):

See table 6.1.10

Default Cell parameters Two PLMN in UTRAN test scenario

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

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

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

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

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

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

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

Default Cell parameters Three PLMN in UTRAN test scenario

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

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

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

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

Not Present
Set to PLMN2
Set to PLMN2 Set to PLMN2
Set to PLMN3
Not present Not present

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

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

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

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

6.1.5 Reference Radio Conditions for signalling test cases (FDD)

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

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

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

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

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

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

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

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

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

Table 6.1.3: Default settings for a non-suitable cell

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

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

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

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

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

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

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

Table 6.1.5: Default power levels of physical channels relative to CPICH_Ec

Parameter	Unit	Level Idle mode	Level Connected mode
DPCH_Ec	dB	(NOTE)	-5
PCCPCH_Ec	dB	-2	
SCCPCH_Ec	dB	-2	
AICH_Ec	dB	-5	
SCH_Ec	dB	-2	
PICH_Ec	dB		-5
NOTE: This shall be less the	ი 122 ძ	Dm to opeure the obe	anal is considered as

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

6.1.6 Reference Radio Conditions for signalling test cases (TDD)

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

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

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

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

Parameter	Unit	Cell 1	Cell 2	Cell 4
Cell type		Serving cell	Suitable 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	2	1
PCCPCH RSCP	dBm	-60	-7	0
NOTE: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.123.				

Table 6.1.8: Default settings for a non-suitable cell

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

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

Parameter	Unit	Level	
Qrxlevmin	dBm	-81	
UE_TXPWR_MAX_RACH	dBm	21	
PCCPCH RSCP	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</ffs></ffs>
	the number of separate RF channels to be supported by the
	'Roaming Network'

6.3 Cell/BS codes etc

See clause 6.1.

6.4 Routing/location area

See clause 6.1.

6.5 Network options settings

See clause 6.1.

6.6 Power control mode

6.6.1 Downlink Power Control

6.6.1.1 Outer Loop Power Control

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

6.6.1.2 Inner Loop Power Control

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

6.6.2 Uplink Power Control

6.6.2.1 Outer Loop Power Control

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

6.6.2.2 Inner Loop Power Control (FDD)

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

6.7 Tx Diversity modes

The reference settings for Tx Diversity Mode shall be

6.7.1 Non-Diverse Operation

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

6.7.2 Diverse Operation

6.7.2.1 Diverse Operation (FDD mode)

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

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	_	Х	_
S-CCPCH		Х	
SCH	Х	_	_
DPCH	ı	_	X
PDSCH	ı	X	X
PICH	-	X	_

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

6.7.2.2 Diverse Operation (TDD mode)

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

Physical channel type	Open loop TxDiversity		Closed loop TxDiversity
	TSTD	SCTD	1
P-CCPCH	_	Х	-
SCH	Х	_	_
DPCH	_	_	X

6.8 Compressed Mode Parameters

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

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

6.8.1 Single compressed mode pattern

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

6.8.1.1 Inter Frequency FDD measurement

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

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	
TGPL1 (Transmission Gap Pattern	3	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & 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)		

6.8.1.2 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 Number)	10	
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 Length)	11	
TGPL2 (Transmission Gap Pattern Length)	-	Only one pattern in use.
TGCFN (Transmission Gap Connection Frame Number):	(Current CFN + (256 – 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 mode)	0	
ITP (Initial transmission power control mode)	0	

6.8.1.3 Inter RAT measurement (GSM - Carrier RSSI)

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

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

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

6.8.1.4 Inter RAT measurement (GSM – Initial BSIC Identification)

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

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	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	

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

6.9 BCCH parameters

See clause 6.1.

6.10 Reference Radio Bearer configurations used in Radio Bearer interoperability testing

The reference radio bearer configurations are typical configurations of the radio interface. This sub-set of the mandatory set of radio bearer configurations supported by the UE is intended to be used as test configurations for testing of the UE.

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

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

6.10.1 QoS Architecture and RAB attributes

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

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

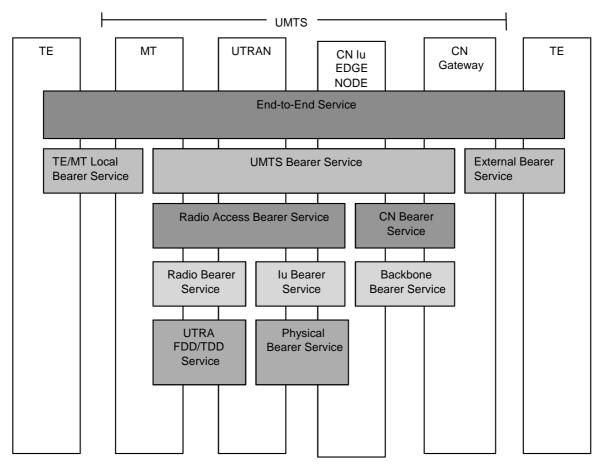


Figure 6.10.1.1: UMTS QoS Architecture

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

Traffic class;

emails

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

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

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

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

streaming audio and

video

Table 6.10.1.1: Traffic classes

6.10.2 RAB and signalling RB for FDD

6.10.2.1 RABs and signalling RBs

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

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

Table 6.10.2.1.1: Prioritised RABs.

#	Traffic class [15]	SSD [15]	Max. rate, kbps	CS/PS
1	Conversational	Speech	UL:12.2 DL:12.2	CS
1a	Conversational	Speech	UL:(12.2 7.95 5.9	CS
			4.75) DL:(12.2	
	_		7.95 5.9 4.75)	
2	Conversational	Speech	UL:10.2 DL:10.2	CS
2a	Conversational	Speech	UL:(10.2, 6.7, 5.9,	CS
			4.75) DL:(10.2,	
		0 1	6.7, 5.9, 4.75)	00
3	Conversational	Speech	UL:7.95 DL:7.95	CS
	Conversational	Speech	UL:7.4 DL:7.4	CS
4a	Conversational	Speech	UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7,	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
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

Table 6.10.2.1.2: Signalling RBs

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

6.10.2.2 Combinations of RABs and Signalling RBs

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

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

Combinations on DPCH

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

- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) 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.

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.

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

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

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

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

6.10.2.4 Typical radio parameter sets

6.10.2.4.1 Combinations on DPCH

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

6.10.2.4.1.1.1 Uplink

6.10.2.4.1.1.1 Transport channel parameters

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

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

6.10.2.4.1.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.1.1.2 Physical channel parameters

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

6.10.2.4.1.1.2 Downlink

6.10.2.4.1.1.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB	ı	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 ty	ре	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 h	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	TB sizes, bit		148 (alt 0, 148) (note)				
	TFS	TFS TF0, bits		0 x148 (alt 1x0) (note)				
		TF1, bits		1x148				
	TTI, ms	TTI, ms		80				
	Coding type	Coding type		CC 1/3				
	CRC, bit			16				
	Max number of bit	516						
	matching							
	RM attribute		155-185					
NOTE: alterna	ative parameters enabl	e the measurement '	transport chan	nel BLER" in t	he UE.			

6.10.2.4.1.1.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.1.2.2 Physical channel parameters

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

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

6.10.2.4.1.2.1 Uplink

6.10.2.4.1.2.1.1 Transport channel parameters

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

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

6.10.2.4.1.2.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.2.1.2 Physical channel parameters

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

6.10.2.4.1.2.2 Downlink

6.10.2.4.1.2.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4		
	User of Radio Bear	RRC	RRC	NAS_DT	NAS_DT			
					High prio	Low prio		
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH		
	RLC mode		UM	AM	AM	AM		
	Payload sizes, bit		136	128	128	128		
	Max data rate, bps		3400	3200	3200	3200		
	AMD/UMD PDU he	AMD/UMD PDU header, bit		16	16	16		
MAC	MAC header, bit		4	4	4	4		
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	DCH						
•	TB sizes, bit	TB sizes, bit		148 (alt 0, 148) (note)				
	TFS	TF0, bits	0x148 (alt 1x0) (note)					
	TF1, bits		1x148					
	TTI, ms	TTI, ms			40			
	Coding type	Coding type			CC 1/3			
	CRC, bit		16					
	Max number of bits	516						
	matching							
	RM attribute	155-230						
NOTE: alterna	ative parameters enable	the measurement	transport chan	nel BLER" in th	ne UE.			

6.10.2.4.1.2.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.2.2.2 Physical channel parameters

DPCH Downlink	DTX position		N/A (SingleTrCH)	
	Minimum spreading fa	ictor	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 chani	nel multiplexing		
Layer 1	TrCH type	TrCH type		DCH			
	TB sizes, bit	TB sizes, bit		148 (alt 0, 148)			
	TFS	TF0, bits	0x148 (alt 1x0)				
		TF1, bits		1x	148		
	TTI, ms		10				
	Coding type	Coding type		CC 1/3			
	CRC, bit			16			
	Max number of bits	Max number of bits/TTI before rate		516			
	matching						
	Uplink: Max numbe frame before rate r			5	16		

6.10.2.4.1.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.3.1.2 Physical channel parameters

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

6.10.2.4.1.3.2 Downlink

6.10.2.4.1.3.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB	SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio 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 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		1	0		
	Coding type		CC 1/3			
	CRC, bit		16			
	Max number of bits/TTI before rate		51	16		
	matching					
NOTE: altern	ative parameters enable the measurement	"transport chan	nel BLER" in th	ne UE.		

6.10.2.4.1.3.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

6.10.2.4.1.3.2.2 Physical channel parameters

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

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

6.10.2.4.1.4.1 Uplink

6.10.2.4.1.4.1.1 Transport channel parameters

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

Higher layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical ch	annel type		DTCH	
	RLC mode		TM	TM	TM
	Payload si	zes, bit	39, 81 (alt. 0, 39, 81)	103	60
	Max data	rate, bps	, , ,	12200	
	TrD PDU I	neader, bit		0	
ИАС	MAC head	ler, bit		0	
	MAC multi	plexing		N/A	
_ayer 1	TrCH type		DCH	DCH	DCH
		TB sizes, bit	39, 81 (alt. 0, 39, 81)	103	60
	TFS	TF0, bits	0x81(alt. 1x0) (note)	0x103	0x60
		TF1, bits	1x39	1x103	1x60
		TF2, bits	1x81	N/A	N/A
	TTI, ms		20	20	20
	Coding typ	oe .	CC 1/3	CC 1/3	CC ½
	CRC, bit		12	N/A	N/A
	Max numb	er of bits/TTI after oding	303	333	136
	Uplink: Ma	ax number of bits/radio ore rate matching	152	167	68
	RM attribute		180-220	170-210	215-256

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

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

See clause 6.10.2.4.1.2.1.1.

6.10.2.4.1.4.1.1.3 TFCS

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

6.10.2.4.1.4.1.2 Physical channel parameters

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

6.10.2.4.1.4.2 Downlink

6.10.2.4.1.4.2.1 Transport channel parameters

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

Higher layer	RAB/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 ½	
	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 siz	zes, bit	39, 42, 55, 75, 81 (alt. 0, 39, 81)	53, 63, 84, 103	60	
	Max data ra	ate, bps		12200		
	TrD PDU h	eader, bit		0		
MAC	MAC head	er, bit		0		
	MAC multip	olexing		N/A		
Layer 1	TrCH type		DCH	DCH	DCH	
	Т	B 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	
		x number of came before rate	152	167	68	
	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 25.212)

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.4a.2.1.3 TFCS

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

6.10.2.4.1.4a.2.2 Physical channel parameters

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

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

6.10.2.4.1.5.1 Uplink

6.10.2.4.1.5.1.1 Transport channel parameters

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

Higher layer	RAB/Sigi	nalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type			DTCH	
	RLC mod		TM	TM	TM
	Payload	sizes, bit	39, 65 (alt. 0, 39, 65)	99	40
	Max data	rate, bps	, , ,	10200	-
	TrD PDU	header, bit		0	
ИAC	MAC hea	ader, bit		0	
	MAC mu	Itiplexing		N/A	
_ayer 1	TrCH type		DCH	DCH	DCH
	TB sizes, bit		39, 65 (alt. 0, 39, 65)	99	40
	TFS	TF0, bits	0x65 (alt. 1x0) (note)	0x99	0x40
		TF1, bits	1x39	1x99	1x40
		TF2, bits	1x65	N/A	N/A
	TTI, ms		20	20	20
	Coding type		CC 1/3	CC 1/3	CC ½
	CRC, bit		12	N/A	N/A
	Max number of bits/TTI after channel coding		255	321	96
	Uplink: Max number of bits/radio frame before rate matching		128	161	48
	RM attrib		180-220	170-210	215-256

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

6.10.2.4.1.5.1.1.2 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 39 65	99	40	
	Max data rate, bps		10 200		
	TrD PDU header, bit		0		
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type	DCH	DCH	DCH	
	TB sizes, bit	0 39 65	99	40	
	TFS TF0, bits	1x0 (note 2)	0x99	0x40	
	(note 1) TF1, bits	1x39	1x99	1x40	
	TF2, bits	1x65	N/A	N/A	
	TTI, ms	20	20	20	
	Coding type	CC 1/3	CC 1/3	CC ½	
	CRC, bit	12	N/A	N/A	
	Max number of bits/TTI after channel coding	255	321	96	
	RM attribute	180-220	170-210	215-256	

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.5.2.1.3 TFCS

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

6.10.2.4.1.5.2.2 Physical channel parameters

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

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

6.10.2.4.1.5a.1 Uplink

6.10.2.4.1.5a.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type		DTCH	
	RLC mode	TM	TM	TM
	Payload sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40
	Max data rate, bps		10200	
	TrD PDU header, bit		0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type	DCH	DCH	DCH
	TB sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40
	TFS TF0, bits	0x65 (alt. 1x0) (note)	0x99	0x40
	TF1, bits	1x39	1x53	1x40
	TF2, bits	1x42	1x63	N/A
	TF3, bits	1x55	1x76	N/A
	TF4, bits	1x58	1x99	N/A
	TF5, bits	1x65	N/A	N/A
	TTI, ms	20	20	20
	Coding type	CC 1/3	CC 1/3	CC ½
	CRC, bit	12	N/A	N/A
	Max number of bits/TTI after channel coding	255	321	96
	Uplink: Max number of bits/radio frame before rate matching	128	161	48
	RM attribute	180-220	170-210	215-256
NOTE:	In case of using this alternative, C number of TrBlks are 1 even if the	RC parity bits are to be a	attached to RAB subflo	w#1 any time since

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.5a.1.1.3 **TFCS**

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

6.10.2.4.1.5a.1.2 Physical channel parameters

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

6.10.2.4.1.5a.2 Downlink

6.10.2.4.1.5a.2.1 Transport channel parameters

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

Higher Layer	RAB/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	0, 39, 42, 55, 58, 65	0, 53, 63, 76, 99	40	
	Max data ı	rate, bps		10 200		
	TrD PDU ł	neader, bit		0		
MAC	MAC head	ler, bit		0		
	MAC multi	plexing		N/A		
Layer 1	TrCH type		DCH	DCH	DCH	
	TB sizes, I	oit	0, 39, 42, 55, 58, 65	0, 53, 63, 76, 99	40	
	TFS	TF0, bits	1x0 (note 2)	0x99	0x40	
	(note 1)	TF1, bits	1x39	1x53	1x40	
		TF2, bits	1x42	1x63	N/A	
		TF3, bits	1x55	1x76	N/A	
		TF4, bits	1x58	1x99	N/A	
		TF5, bits	1x65	N/A	N/A	
	TTI, ms		20	20	20	
	Coding typ	oe	CC 1/3	CC 1/3	CC ½	
	CRC, bit		12	N/A	N/A	
	Max numb	er of bits/TTI after oding	255	321	96	
	RM attribu	•	180-220	170-210	215-256	

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.5a.2.1.3 TFCS

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

6.10.2.4.1.5a.2.2 Physical channel parameters

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

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

6.10.2.4.1.6.1 Uplink

6.10.2.4.1.6.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTO	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 75 (alt. 0, 39, 75)	84	
	Max data rate, bps	795	7950	
	TrD PDU header, bit	0		
ИAC	MAC header, bit	0		
	MAC multiplexing	N/A	A	
_ayer 1	TrCH type	DCH	DCH	
•	TB sizes, bit	39, 75 (alt. 0, 39, 75)	84	
	TFS TF0, bits	0x75 (alt. 1x0) (note)	0x84	
	TF1, bits	1x39	1x84	
	TF2, bits	1x75	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	285 276		
	Uplink: Max number of bits/radio frame before	143	138	
	rate matching			
	RM attribute	180-220	170-210	

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.6.1.1.3 TFCS

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

6.10.2.4.1.6.1.2 Physical channel parameters

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

6.10.2.4.1.6.2 Downlink

6.10.2.4.1.6.2.1 Transport channel parameters

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

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.6.2.1.3 TFCS

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

6.10.2.4.1.6.2.2 Physical channel parameters

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

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

6.10.2.4.1.7.1 Uplink

6.10.2.4.1.7.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTO	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 61 (alt. 0, 39, 61)	87	
	Max data rate, bps	740	00	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A		
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	122	143	
	rate matching			
	RM attribute	180-220	170-210	

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.7.1.1.3 TFCS

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

6.10.2.4.1.7.1.2 Physical channel parameters

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

6.10.2.4.1.7.2 Downlink

6.10.2.4.1.7.2.1 Transport channel parameters

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

Higher layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical ch	annel type	DT	CH
	RLC mode		TM	TM
	Payload si	zes, bit	0	87
			39	
			61	
	Max data		74	100
	TrD PDU I	neader, bit		0
MAC	MAC head	ler, bit	0	
	MAC multi	plexing	N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes, I	oit	0	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 typ	pe	CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max numb	er of bits/TTI after channel coding	243	285
	RM attribu	te	180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.7.2.1.3 TFCS

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

6.10.2.4.1.7.2.2 Physical channel parameters

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

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

6.10.2.4.1.7a.1 Uplink

6.10.2.4.1.7a.1.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTC	Н
	RLC mod		TM	TM
	Payload sizes, bit		39, 42, 55, 58, 61 (alt. 0, 39, 42, 55, 58, 61)	53, 63, 76, 87
	Max data	a rate, bps	7400	
	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 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.).

6.10.2.4.1.7a.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

Uplink 6.10.2.4.1.8.1

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	DTC	CH
	RLC mode	TM	TM
	Payload sizes, bit	39, 58 (alt. 0, 39, 58)	76
	Max data rate, bps	670	00
	TrD PDU header, bit	0	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	4
Layer 1	TrCH type	DCH	DCH
-	TB sizes, bit	39, 58 (alt. 0, 39, 58)	76
	TFS TF0, bits	0x58 (alt. 1x0) (note)	0x76
	TF1, bits	1x39	1x76
	TF2, bits	1x58	N/A
	TTI, ms	20	20
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	234	252
	Uplink: Max number of bits/radio frame before rate matching	117	126
	RM attribute	180-220	170-210

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

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.8.1.1.3 TFCS

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

6.10.2.4.1.8.1.2 Physical channel parameters

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

6.10.2.4.1.8.2 Downlink

6.10.2.4.1.8.2.1 Transport channel parameters

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

Higher layer	RAB/Sign	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DT	CH
	RLC mode		TM	TM
	Payload s	izes, bit	0 39 58	76
	Max data	rate, bps		700
	TrD PDU	header, bit		0
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	DCH
·	TB sizes, bit		0 39 58	76
	TFS	TF0, bits	1x0 (note 2)	0x76
	(note 1)	TF1, bits	1x39	1x76
		TF2, bits	1x58	N/A
	TTI, ms		20	20
	Coding type		CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max number of bits/TTI after channel coding		234	252
	RM attribu	ute	180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.8.2.1.3 TFCS

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

6.10.2.4.1.8.2.2 Physical channel parameters

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

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

6.10.2.4.1.9.1 Uplink

6.10.2.4.1.9.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTC	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 55 (alt. 0, 39, 55)	63	
	Max data rate, bps	590	5900	
	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 ch	annel type	DT	CH
	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 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).

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.9.2.1.3 TFCS

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

6.10.2.4.1.9.2.2 Physical channel parameters

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

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

SRBs for DCCH

6.10.2.4.1.10.1 Uplink

6.10.2.4.1.10.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.1.1.1

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 header, bit		0	
	MAC mult	iplexing	N/A	
Layer 1	TrCH type	•	DCH	DCH
	TB sizes,	bit	0	54
			39	
			49	
	TFS	TF0, bits	1x0 (note 2)	0x54
	(note 1)	TF1, bits	1x39	1x54
		TF2, bits	1x49	N/A
	TTI, ms		20	20
	Coding type	oe .	CC 1/3	CC 1/3
	CRC, bit		12	N/A
		per of bits/TTI after channel coding	207	186
	RM attribu	ute	180-220	170-210

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

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

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

See clause 6.10.2.4.1.1.2.1.1

6.10.2.4.1.10.2.1.3 TFCS

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

6.10.2.4.1.10.2.2 Physical channel parameters

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

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

6.10.2.4.1.11.1 Uplink

6.10.2.4.1.11.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type	DTO	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	TD	CH
	RLC mode		TM	TM
	Payload s	izes, bit	0	53
			39 42	
	Max data	rate, bps		750
	TrD PDU I	neader, bit		0
MAC	MAC header, bit		0	
	MAC multi	plexing	N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes,	bit	0	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 typ	oe .	CC 1/3	CC 1/3
	CRC, bit		12	N/A
		per of bits/TTI after channel coding	186	183
	RM attribute		180-220	170-210

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

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

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

See clause 6.10.2.4.1.1.2.1.1

6.10.2.4.1.11.2.1.3 TFCS

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

6.10.2.4.1.11.2.2 Physical channel parameters

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

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

6.10.2.4.1.12.1 Uplink

6.10.2.4.1.12.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

6.10.2.4.1.12.1.1.3 TFCS

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

6.10.2.4.1.12.1.2 Physical channel parameters

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

6.10.2.4.1.12.2 Downlink

6.10.2.4.1.12.2.1 Transport channel parameters

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

Higher layer	RAB/Sig	gnalling RB	RAB
RLC	Logical	channel type	DTCH
	RLC mo	de	TM
	Payload	sizes, bit	576
	Max data	a 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 t	type	TC
	CRC, bit	t	16
	Max nur	mber of bits/TTI after channel coding	3564
	RM attril	bute	160-200

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.12.2.1.3 TFCS

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

6.10.2.4.1.12.2.2 Physical channel parameters

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

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

6.10.2.4.1.13.1 Uplink

6.10.2.4.1.13.1.1 Transport channel parameters

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

Higher 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		D=0.11
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Uplink: Max number of bits/radio frame before	891
	rate matching	
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.16.1.1.3 TFCS

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

6.10.2.4.1.16.1.2 Physical channel parameters

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

6.10.2.4.1.16.2 Downlink

6.10.2.4.1.16.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.16.2.1.3 TFCS

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

6.10.2.4.1.16.2.2 Physical channel parameters

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

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

6.10.2.4.1.17.1 Uplink

6.10.2.4.1.17.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.17.1.1.3 TFCS

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

6.10.2.4.1.17.1.2 Physical channel parameters

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

6.10.2.4.1.17.2 Downlink

6.10.2.4.1.17.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.17.2.1.3 TFCS

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

6.10.2.4.1.17.2.2 Physical channel parameters

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

6.10.2.4.1.18	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	1062 (alt. 1080)
	rate matching	
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23.1.1.3 TFCS

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

6.10.2.4.1.23.1.2 Physical channel parameters

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

6.10.2.4.1.23.2 Downlink

6.10.2.4.1.23.2.1 Transport channel parameters

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

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

6.10.2.4.1.23a.2.1.2 Transport channel parameters for 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	531
	before rate matching	
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23b.1.1.3 TFCS

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

6.10.2.4.1.23b.1.2 Physical channel parameters

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

6.10.2.4.1.23b.2 Downlink

6.10.2.4.1.23b.2.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical	channel type	DTCH
	RLC mo	de	AM
	Payload	sizes, bit	320
	Max dat	a 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 t	type	TC
	CRC, bit	t	16
	Max number of bits/TTI after channel coding		2124
	RM attribute		135-175

6.10.2.4.1.23b.2.1.2 Transport channel parameters for 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		AM
	Payload	sizes, bit	320
	Max data	a rate, bps	32000
	AMD PD	U header, bit	16
MAC	MAC he	ader, bit	0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms		40
	Coding t	ype	TC
	CRC, bit		16
		nber of bits/TTI after channel coding	4236
	Uplink: Max number of bits/radio frame before rate matching		1059
	RM attrib		135-175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23c.1.1.3 TFCS

TFCS (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 positi	on	Flexible
Downlink			
	Spreading factor		64
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	4
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	60
		Number of data bits/frame	900

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

kbps SRBs for DCCH

6.10.2.4.1.23d.1 Uplink

6.10.2.4.1.23d.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23d.1.1.3 TFCS

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

6.10.2.4.1.23d.1.2 Physical channel parameters

DPCH	Min spreading factor	32
Uplink	Max number of DPDCH data bits/radio	1200
	frame	
	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 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
	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/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	64000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	3x336
	TF4, bits	4x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4236
	Uplink: Max number of bits/radio frame before rate matching	2118
	RM attribute	130-170

6.10.2.4.1.26.1.1.2 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	RAB/Signalling RB	RAB
layer		
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 posit	ion	Flexible
Downlink	Spreading	g 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	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	144000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	9 x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	9516
	Uplink: Max number of bits/radio frame before rate matching	4758
	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	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	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

6.10.2.4.1.33 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 Number of DPCH		4
			3
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	1248
		Number of data bits/frame	18720

6.10.2.4.1.36 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, 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 bps SRBs for DCCH

6.10.2.4.1.38a.1 Uplink

6.10.2.4.1.38a.1.1 Transport channel parameters

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

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

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	0
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TTI, ms	20
	Coding type	CC
	CRC, bit	16
	Max number of bits/TTI after channel coding	0
	Uplink: Max number of bits/radio frame	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), (TF1,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)

6.10.2.4.1.38a.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 posit	ion	Fixed
Downlink	Spreading	factor	128
	DPCCH Number of TFCI bits/slot		0
		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	34
		Number of data bits/frame	510

6.10.2.4.1.38b 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 cl	hannel type	DTCH
	RLC mod	le	AM
	Payload s	sizes, bit	320
	Max data	rate, bps	8000
	AMD PDI	U header, bit	16
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
_	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		1068
	Uplink: M	ax number of bits/radio frame	267
	before ra	te matching	
	RM attrib	ute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38b.1.1.4 TFCS

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

6.10.2.4.1.38b.1.2 Physical channel parameters

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

6.10.2.4.1.38b.2 Downlink

6.10.2.4.1.38b.2.1 Transport channel parameters

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.38b.2.1.4 TFCS

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

6.10.2.4.1.38b.2.2 Physical channel parameters

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

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

6.10.2.4.1.38c.1 Uplink

6.10.2.4.1.38c.1.1 Transport channel parameters

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

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

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

6.10.2.4.1.38c.1.1.4 TFCS

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

6.10.2.4.1.38c.1.2 Physical channel parameters

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

6.10.2.4.1.38c.2 Downlink

6.10.2.4.1.38c.2.1 Transport channel parameters

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

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

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

6.10.2.4.1.38c.2.1.4 TFCS

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

6.10.2.4.1.38c.2.2 Physical channel parameters

DPCH	DTX 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 mode	AM	AM	
	Payload sizes, bit	320	320	
	Max data rate, bps	64000	64000	
	AMD PDU header, bit	16	16	
MAC	MAC header, bit	4	4	
	MAC multiplexing	2 logical channe	2 logical channel multiplexing	
Layer 1	TrCH type	DCH		
	TB sizes, bit	340		
	TFS TF0, bits	0x340		
	TF1, bits	1x34	10	
	TF2, bits	2x34	10	
	TF3, bits	3x34	10	
	TF4, bits	4x34	10	
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	4284		
	Uplink: Max number of bits/radio frame	214	2	
	before rate matching			
	RM attribute	130-1	70	

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

6.10.2.4.1.38d.1.2 Physical channel parameters

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

6.10.2.4.1.38d.2 Downlink

6.10.2.4.1.38d.2.1 Transport channel parameters

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

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

Higher Layer	RAB/Signalling RB		RAB	
RLC	Logical channel type	DTCH	DTCH	
	RLC 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 0x340	0x340		
	1x340	1x340		
	2x340	2x3	40	
	3x340	3x340		
	4x340	4x340		
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	4284		
	RM attribute	130-170		

6.10.2.4.1.38d.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), (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

See clause 6.10.2.4.1. 4a.2.1.1.

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

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38e.2.1.4 TFCS

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

6.10.2.4.1.38e.2.2 Physical channel parameters

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

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

6.10.2.4.1.38f.1 Uplink

6.10.2.4.1.38f.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.1.1.1.

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

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

6.10.2.4.1.38f.1.1.4 TFCS

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

6.10.2.4.1.38f.1.2 Physical channel parameters

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

6.10.2.4.1.38f.2 Downlink

6.10.2.4.1.38f.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38f.2.1.4 TFCS

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

6.10.2.4.1.38f.2.2 Physical channel parameters

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

6.10.2.4.1.38g Conversational / speech / (12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38g.1 Uplink

6.10.2.4.1.38g.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB See clause 6.10.2.4.1.23b.1.1.1.

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38g.1.1.4 TFCS

TFCS size	32
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1), (TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)

6.10.2.4.1.38g.1.2 Physical channel parameters

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

6.10.2.4.1.38g.2 Downlink

6.10.2.4.1.38g.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB See clause 6.10.2.4.1.23b.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38g.2.1.4 TFCS

TFCS size	36
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1)

6.10.2.4.1.38g.2.2 Physical channel parameters

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

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

6.10.2.4.1.38h.1 Uplink

6.10.2.4.1.38h.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.1.1.1.

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38h.1.1.4 TFCS

TFCS size	32
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF0,TF0,TF2,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF5,TF4,TF1,TF0,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF5,TF4,TF1,TF2,TF0), (TF5,TF4,TF1,TF4,TF0), (TF4,TF3,TF0,TF0,TF0),
	(TF4,TF3,TF0,TF1,TF0), (TF3,TF2,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF1,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF2,TF0),
	(TF1,TF0,TF0,TF4,TF0), (TF0,TF0,TF0,TF0,TF1), (TF0,TF0,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF0,TF0,TF0,TF4,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF5,TF4,TF1,TF1,TF1), (TF5,TF4,TF1,TF2,TF1), (TF5,TF4,TF1,TF4,TF1),
	(TF4,TF3,TF0,TF0,TF1), (TF4,TF3,TF0,TF1,TF1), (TF3,TF2,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1,TF1),
	(TF1,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF4,TF1)

6.10.2.4.1.38h.1.2 Physical channel parameters

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

6.10.2.4.1.38h.2 Downlink

6.10.2.4.1.38h.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38h.2.1.2 Transport channel parameters for Interactive or background / DL:32 kbps / PS RAB See clause 6.10.2.4.1.23c.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38h.2.1.4 TFCS

TFCS size	48
TFCS	(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,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)

6.10.2.4.1.38i.1.2 Physical channel parameters

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

6.10.2.4.1.38i.2 Downlink

6.10.2.4.1.38i.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38i,2.1.4 TFCS

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

6.10.2.4.1.38i.2.2 Physical channel parameters

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

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

6.10.2.4.1.38j.1 Uplink

6.10.2.4.1.38j.1.1 Transport channel parameters

See clause 6.10.2.4.1.38i.1.1

6.10.2.4.1.38j.2 Downlink

6.10.2.4.1.38j.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38j.2.1.4 TFCS

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

6.10.2.4.1.38j.2.2 Physical channel parameters

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

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

6.10.2.4.1.39.1 Uplink

See clause 6.10.2.4.1.38.1.

6.10.2.4.1.39.2 Downlink

6.10.2.4.1.39.2.1 Transport channel parameters

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

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

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

6.10.2.4.1.39.2.1.4 TFCS

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

6.10.2.4.1.40.1.2 Physical channel parameters

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

6.10.2.4.1.40.2 Downlink

See clause 6.10.2.4.1.39.2.

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

6.10.2.4.1.41.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.41.2 Downlink

6.10.2.4.1.41.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.41.2.1.4 TFCS

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

6.10.2.4.1.41.2.2 Physical channel parameters

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

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

6.10.2.4.1.42.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.42.2 Downlink

6.10.2.4.1.42.2.1 Transport channel parameters

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

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

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

6.10.2.4.1.42.2.1.4 TFCS

TFCS size	30 (alt. 42)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	[(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1))

6.10.2.4.1.42.2.2 Physical channel parameters

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

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

6.10.2.4.1.45.1 Uplink

6.10.2.4.1.45.1.1 Transport channel parameters

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

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

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

6.10.2.4.1.45.1.1.4 TFCS

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

6.10.2.4.1.45.1.2 Physical channel parameters

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

6.10.2.4.1.45.2 Downlink

6.10.2.4.1.45.2.1 Transport channel parameters

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

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

6.10.2.4.1.45.2.1.3 Transport channel parameters for 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, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

6.10.2.4.1.45.2.2 Physical channel parameters

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

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

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

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

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

6.10.2.4.1.49.1.1.4 TFCS

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

6.10.2.4.1.49.1.2 Physical channel parameters

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

6.10.2.4.1.49.2 Downlink

6.10.2.4.1.49.2.1 Transport channel parameters

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

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

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

6.10.2.4.1.49.2.1.4 TFCS

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

6.10.2.4.1.49.2.2 Physical channel parameters

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

6.10.2.4.1.49a Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS

RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.2.4.1.49a.1 Uplink

6.10.2.4.1.49a.1.1 Transport channel parameters

6.10.2.4.1.49a.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.2 7.95 5.9 4.75)

kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.49a.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.2.4.1.13.1.1.1.

6.10.2.4.1.49a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.49a.1.1.4 TFCS

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

6.10.2.4.1.49a.1.2 Physical channel parameters

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

6.10.2.4.1.49a.2 Downlink

6.10.2.4.1.49a.2.1 Transport channel parameters

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

See clause 6.10.2.4.1. 4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.49a.2.1.4 TFCS

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

6.10.2.4.1.49a.2.2 Physical channel parameters

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

6.10.2.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 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 bits/radio frame	4800
	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	on	Flexible
Downlink	Spreading factor		16
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	288
		Number of data bits/frame	4320

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

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

6.10.2.4.1.51a.1 Uplink

6.10.2.4.1.51a.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.2.1.1.

6.10.2.4.1.51a.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB

See clause 6.10.2.4.1.38b.1.1.2.

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.51a.1.1.4 TFCS

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

6.10.2.4.1.51a.1.2 Physical channel parameters

DPC	H Min spreading factor	16
Uplir	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

 $6.10.2.4.1.51a.2.1.1 \quad Transport\ channel\ parameters\ for\ Conversational\ /\ unknown\ /\ DL:64\ kbps\ /\ PS\ RAB$

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 ch	annel type	DTCH
	RLC mode	9	AM
	Payload s	izes, bit	320
	Max data	rate, bps	16000
	AMD PDU	header, bit	16
MAC	MAC head	der, bit	0
	MAC mult	iplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes,	bit	336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		2124
	Uplink: Max 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/Sig	nalling RB	RAB	RAB
RLC	Logical o	channel type	DTCH	DTCH
	RLC mod	de	AM	AM
	Payload	sizes, bit	320	320
	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		340	
	TFS	TF0, bits	0x340	
		TF1, bits	1x340	
	TTI, ms		40	
	Coding t	ype	TC	
	CRC, bit		16	
	Max num	nber of bits/TTI after channel coding	1080	
	Uplink: N	Max number of bits/radio frame	270	
	before ra	ate matching		
	RM attrib	oute	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/Sign	alling RB	RAB	RAB	
RLC	Logical channel type		DTCH	DTCH	
	RLC mode	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 multiplexing		2 logical chann	2 logical channel multiplexing	
Layer 1	TrCH type		DCH		
	TB sizes,	bit	34	10	
	TFS	TF0, bits	0x3	340	
		TF1, bits	1x3	340	
		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		
		ax number of bits/radio frame e matching	21	42	
	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 header, bit		4	4
	MAC multiplexing		2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
	TB sizes	s, bit	340	
	TFS	0x340	0x340	
		1x340	1x3	340
		2x340	2x3	340
	3x340		3x340	
		4x340	4x3	340
	TTI, ms		20	
	Coding type		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 position Spreading factor		Flexible
Downlink			32
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	4
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	140
		Number of data bits/frame	2100

6.10.2.4.1.58 Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8

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

6.10.2.4.1.58.1 Uplink

6.10.2.4.1.58.1.1 Transport channel parameters

6.10.2.4.1.58.1.1.1 Transport channel parameters for Streaming / unknown / UL:16 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	16000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1068
	Uplink: Max number of bits/radio frame	534
	before rate matching	
	RM attribute	135-175

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.58.1.1.4 TFCS

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

6.10.2.4.1.58.1.2 Physical channel parameters

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

6.10.2.4.1.58.2 Downlink

6.10.2.4.1.58.2.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical	channel type	DTCH
	RLC mo		AM
	Payload	sizes, bit	640
	Max data	a rate, bps	64000
	AM PDU	header, bit	16
MAC	MAC he	ader, bit	0
	MAC mu	ıltiplexing	N/A
Layer 1	TrCH typ	oe e	DCH
	TB sizes		656
	TFS	TF0, bits	0x656
		TF1, bits	1x656
		TF2, bits	2x656
		TF3, bits	4x656
	TTI, ms		40
	Coding t	ype	TC
	CRC, bit		16
	Max nun	nber of bits/TTI after channel coding	8076
	RM attril	oute	125-165

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.58.2.1.4 TFCS

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

6.10.2.4.1.58.2.2 Physical channel parameters

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

6.10.2.4.2 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 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 384 kbps / PS RAB, DSCH
	DTX position	n	N/A (SingleTrCH)
	Minimum sp	oreading factor	8
DPCH	RAB or SRI	B, TrCh	3.4 kbps SRB for DCCH, DCH
Downlink	DTX position		N/A (SingleTrCH)
associated	Spreading factor		256
with	DPCCH	Number of TFCI bits/slot	2
PDSCH		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	12
		Number of data bits/frame	180

6.10.2.4.2.3 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.2.3.1 Uplink

See clause 6.10.2.4.1.26.1.

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 channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	640
	Max data rate, bps	2048000
	AMD PDU header, bit	16
MAC	MAC header, bit	18
	MAC multiplexing	Logical channel multiplexing on a frame by frame basis
Layer 1	TrCH type	DSCH
,	TB sizes, bit	674
	TFS TF0, bits	0x674
	TF1, bits	1x674
	TF2, bits	2x674
	TF3, bits	4 x674
	TF4, bits	8 x674
	TF5, bits	12x674
	TF6, bits	16x674
	TF7, bits	20x674
	TF8, bits	24x674
	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)

Higher layer	RAB/Signalling RB	RAB
	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 DTX position		Interactive or background / 2048 kbps / PS RAB, DSCH
			N/A (SingleTrCH)
	Minimum spreading factor		4
DPCH	RAB or SRB, TrCh		3.4 kbps SRB for DCCH, DCH
Downlink	DTX position		N/A (SingleTrCH)
associated	Spreading factor		256
with	DPCCH	Number of TFCI bits/slot	2
PDSCH		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	12
		Number of data bits/frame	180

6.10.2.4.2.4 Void

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

6.10.2.4.2.5.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.5.2 Downlink

6.10.2.4.2.5.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.2.1.1.

6.10.2.4.2.5.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.2.4.2.2.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.5.2.1.4 TFCS

PDSCH	TFCS	6 (alt.9)
	size	
	TFCS	384 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5
		(alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8)
DPCH	TFCS	6
Downlink	size	
associated	TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) =
with		(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),
PDSCH		(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.2.5.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 384 kbps / PS RAB, DSC	H
	DTX posit	ion	N/A (SingleTrCH)	
	Minimum spreading factor		8	
DPCH Downlink associated	RAB or SRB, TrCh		Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH	
with	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	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	6
associated with PDSCH	TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) = (TF0, TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.2.6.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh DTX position		Interactive or background / 2048 kbps / PS RAB, DSCH	
			N/A (SingleTrCH)	
	Minimum spreading factor		4	
DPCH Downlink associated	RAB or SF	RB, TrCh	Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH	
with	DTX position		Fixed	
PDSCH	Spreading factor		128	
	DPCCH	Number of TFCI bits/slot	2	
		Number of	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 RI	3	SRB	
	User of Radio Bea	arer	RRC	
RLC	Logical channel ty	/pe	PCCH	
	RLC mode		TM	
	Payload sizes, bit		240 (alt. 80)	
	Max data rate, bp	S	24000 (alt. 8000)	
	TrD PDU header,	bit	0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		PCH	
	TB sizes, bit		240 (alt. 80)	
	TFS	TF0, bts	0x240 (alt. 0x80)	
		TF1, bits	1x240 (alt. 1x80)	
	TTI, ms		10	
	Coding type		CC ½	
	CRC, bit		16	
	Max number of bi	ts/TTI before rate	528 (alt. 208)	
	matching			
	RM attribute		210-250	

6.10.2.4.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for PCCH = TF0, TF1

6.10.2.4.3.1.2 Physical channel parameters

SCCPCH	TFCS size	2
	DTX position	N/A (SingleTrCH)
	Spreading factor	128(alt. 256)
	Number of TFCI bits/slot	0
	Number of Pilot bits/slot	0
	Number of data bits/slot	40(alt. 20)
	Number of data bits/frame	600(alt. 300)

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

6.10.2.4.3.2.1 Transport channel parameters

6.10.2.4.3.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

Higher	RAB/signalling RB	RAB	
layer	User of Radio Bearer	Interactive/ Background RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	32000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	24	
IVIAC	MAC multiplexing	N/A	
Layer 1	TrCH type	FACH	
	TB sizes, bit	360	
	TFS TF0, bits	0x360	
	TF1, bits	1x360	
	TTI, ms	10	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI before rate matching	1140	
	RM attribute	110-150	

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

Higher	RAB/signalling RB		SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	
layer	User of Radio Bearer		RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	
						High prio	Low prio		
RLC	Logical char	nnel type	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	
	RLC mode		UM	UM	AM	AM	AM	TM	
	Payload size	es, bit	152	136 or 120 (note)	128	128	128	166	
	Max data ra	Max data rate, bps		27200 or 2400 (alt. 40800 or 36000)	25600 (alt. 38400)	25600 (alt. 38400)	25600 (alt. 38400)	33200 (alt. 49800)	
	AMD/UMD/7 bit	TrD PDU header,	8	8	16	16	16	0	
MAC	MAC header, bit		8	24 or 40	24	24	24	2	
IVIAC	MAC multipl	MAC multiplexing		6 logical channel multiplexing					
Layer 1	TrCH type	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	TTI, ms		10					
	Coding type		CC ½						
	CRC, bit		16						
	Max number of bits/TTI before		752 (alt. 1136)						
	rate matching		` '						
	RM attribute			200-240					
NOTE:	MAC header size and PLC payload size depend on use of U-RNTI or C-RNTI.								

6.10.2.4.3.2.1.3 TFCS

TFCS siz	е	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:	These TF	Cs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for
	TFC of (T	F2, 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/Sign	alling RB	RAB	RAB	
RLC	Logical ch	annel type	DTCH	DTCH	
	RLC mode	e	AM	AM	
	Payload s	izes, bit	320	320	
	Max data	rate, bps	32000	32000	
	AMD PDU	J header, bit	16	16	
MAC	MAC head	der, bit	24	24	
	MAC mult	iplexing	2 logical channel multiplexing		
Layer 1	TrCH type	;	FACH		
	TB sizes,	bit	360		
	TFS	TF0, bits	0x360		
		TF1, bits	1x3	60	
	TTI, ms		10		
	Coding ty	pe	TC		
	CRC, bit		16		
	Max numb	per of bits/TTI after channel coding	1140		
	RM attribu	ute	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 siz	e 4 or 5 (alt. 4. 5 or 6)
1703 812	3 4 01 5 (alt. 4, 5 01 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 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	f (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	er RAB/signalling RB		N/A
	User of Radio Bea		BMC
RLC	C Logical channel type		CTCH
	RLC mode		UM
	Payload sizes, bit		152
	Max data rate, bp	S	15200
	UMD PDU heade	r, bit	8
MAC	MAC header, bit		8
	MAC multiplexing		N/A
Layer 1	TrCH type		FACH
	TB sizes, bit		168
	TFS	TF0, bts	0x168
		TF1, bits	1x168
	TTI, ms		10
	Coding type		CC 1/3
	CRC, bit		16
	Max number of bi	ts/TTI before rate	576
	matching		
	RM attribute		200-240

6.10.2.4.3.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

Higher	RAB/signalling RB		SRB#0	SRB#5	
layer	User of Radio Bearer		RRC	RRC	
RLC	Logical channel type		CCCH	BCCH	
	RLC mode		UM	TM	
	Payload size	es, bit	152	166	
	Max data ra	te, bps	15200	16600	
	AMD/UMD/	TrD PDU header,	8	0	
	bit				
MAC	MAC heade	r, bit	8	2	
IVIAC	MAC multip	lexing	2 logical channel multiplexing		
Layer 1	TrCH type		FACH		
	TB sizes, bi	t	168		
	TFS	TF0, bits	0x168		
	11.5	TF1, bits	1x	168	
	TTI, ms		10		
	Coding type		CC 1/3		
	CRC, bit Max number of bits/TTI		16		
			576		
	before rate	matching			
	RM attribute)	200	0-240	

6.10.2.4.3.4.1.3 TFCS

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

6.10.2.4.3.4.2 Physical channel parameters

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

6.10.2.4.4 Combinations on PRACH

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

6.10.2.4.4.1.1 Transport channel parameters

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

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4		
layer	User of Radio Bearer	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio		
RLC	Logical channel type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH		
	RLC mode	AM	TM	UM	AM	AM	AM		
	Payload sizes, bit	320	166	136	128	128	128		
	Max data rate, bps	32000	16600	13600	12800	12800	12800		
	AMD/UMD/TrD PDU header, bit	16	0	8	16	16	16		
MAC	MAC header, bit	24	2	24	24	24	24		
	MAC multiplexing	6 logical channel multiplexing							
Layer 1	TrCH type	RACH							
	TB sizes, bit	360	168	168	168	168	168		
	TFS TF0, bits	1x168							
	TF1, bits	1x360							
	TTI, ms	20 (alt. 10)							
	Coding type	CC ½							
	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 siz	e 2	2
TFCS	3	32 kbps + SRBs for CCCH/ DCCH = TF0, TF1

6.10.2.4.4.1.2 Physical channel parameters

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

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

6.10.2.4.4.2.1 Transport channel parameters

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

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

6.10.2.4.4.2.1.2 TFCS

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

6.10.2.4.4.2.2 Physical channel parameters

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

6.10.3 RAB and signalling RB for TDD

6.10.3.1 RABs and signalling RBs

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

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

Table 6.10.3.1.1: Prioritised RABs.

#	Traffic class ^[3]	SSD ^[3]	Max. rate, kbps	CS/PS
1	Conversational	Speech	UL:12.2 DL:12.2	CS
1a	Conversational	Speech	UL: (12.2 7.95 5.9 4.75) DL(12.2 7.95 5.9 4.75)	cs
2	Conversational	Speech	UL:10.2 DL:10.2	CS
2a	Conversational	Speech	UL:(10.2 , 6.7, 5.9, 4.75) DL:10.2, 6.7, 5.9, 4.75)	CS
3	Conversational	Speech	UL:7.95 DL:7.95	CS
4	Conversational	Speech	UL:7.4 DL:7.4	CS
4a	Conversational	Speech	UL:(12.2 7.95 5.9 4.75, DL:(12.2 7.95 5.9 4.75)	CS
5	Conversational	Speech	UL:6.7 DL:6.7	CS
6	Conversational	Speech	UL:5.9 DL:5.9	CS
7	Conversational	Speech	UL:5.15 DL:5.15	CS
8	Conversational	Speech	UL:4.75 DL:4.75	CS
9	Conversational	Unknown	UL:28.8 DL:28.8	CS
10	Conversational	Unknown	UL:64 DL:64	CS
11	Conversational	Unknown	UL:32 DL:32	CS
11a	Conversational	Unknown	UL:8 DL:8	CS
12	Streaming	Unknown	UL:14.4 DL:14.4	CS
13	Streaming	Unknown	UL:28.8 DL:28.8	CS
14	Streaming	Unknown	UL:57.6 DL:57.6	CS
15	Void			
15a	Streaming	Unknown	UL:16 DL:64	PS
16	Void			
17	Void			
18	Void			
19	Void			
20	Interactive or Background	N/A	UL:32 DL:8	PS
20a	Interactive or Background	N/A	UL:8 DL:8	PS
20b	Interactive or Background	N/A	UL:16 DL:16	PS
20c	Interactive or Background	N/A	UL:32 DL:32	PS
21	Void			
22	Interactive or Background	N/A	UL:32 DL:64	PS
23	Interactive or Background	N/A	UL:64 DL:64	PS
24	Interactive or Background	N/A	UL:64 DL:128	PS
25	Interactive or Background	N/A	UL:128 DL:128	PS
26	Interactive or Background	N/A	UL:64 DL:384	PS
27	Interactive or Background	N/A	UL:128 DL:384	PS
28	Interactive or Background	N/A	UL:384 DL:384	PS
29	Interactive or Background	N/A	UL:64 DL:2048	PS
30	Interactive or Background	N/A	UL:128 DL:2048	PS
31	Void	.		
32	Interactive or Background	N/A	UL:64 DL:256	PS
33	Interactive or Background	N/A	UL:0 DL:32	PS
34	Interactive or Background	N/A	UL:32 DL:0	PS
35	Interactive or Background	N/A	UL:64 DL:144	PS
36	Interactive or Background	N/A	UL:144 DL:144	PS

SCCPCH or PDSCH

Maximum rate, kbps PhyCh onto which Logical channel SRBs are mapped UL:1.7 DL:1.7 DPCH 1 DCCH 2 UL:3.4 DL:3.4 **DCCH DPCH** 3 UL:13.6 DL:13.6 **DCCH DPCH** 4 DL:27.2 (alt. 13.6) DCCH SCCPCH 5 UL:16.8 CCCH PRACH 6 DL:32 (alt. 16) CCCH SCCPCH SCCPCH 7 DL:33.6 (alt. 16.8) BCCH: SCCPCH 8 **PCCH** DL:12 (alt. 8) 9 UL:16.8 SHCCH **PRACH** 10 UL:16.8 SHCCH PRACH or PUSCH 11 DL:32 (alt. 16) **SCCPCH** SHCCH

SHCCH

Table 6.10.3.1.2: Signalling RBs

6.10.3.2 Combinations of RABs and Signalling RBs

DL:16

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

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

Combinations on DPCH

1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.

12

- 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 + 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) Void47) Void48) 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				Services
Traffic class ^[3]	SSD ^[3]	Max. rate, kbps	CS/PS	BER ^[3]	Services
Conversational	Speech	UL:4.75-12.2 DL:4.75-12.2	cs	5x10 ⁻⁴ , 1x10 ⁻³ , 5x10 ⁻³	AMR speech
Conversational	Unknown	UL:64 DL:64	cs	1x10 ⁻⁴ or 1x10 ⁻⁶	UDI 1B, 64k 3G-324M ^[4]
Conversational	Unknown	UL:32 DL:32	cs	1x10 ⁻⁴ or 1x10 ⁻⁶	32k 3G-324M ^[4]
Conversational	Unknown	UL:28.8 DL:28.8	CS	1x10 ⁻³	Transparent modem
Streaming	Unknown	UL:14.4 DL:14.4	CS	1x10 ⁻³	FAX ^[6]
Streaming	Unknown	UL:28.8 DL:28.8	CS	1x10 ⁻³	FAX ^[6] PIAFS 32 kbps
Streaming	Unknown	UL:57.6 DL:57.6	CS	1x10 ⁻³	Modem ^[6] , FTM ^[5] , PIAFS 64 kbps
Streaming	Unknown	UL:64-128 or DL:64-384	cs	1x10 ⁻³ or 1x10 ⁻⁴	Streaming video, uni-directional
Interactive or Background	N/A	UL:32-384 DL:8-2048	PS	1x10 ⁻³ or 1x10 ⁻⁴	Packet

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

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

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

6.10.3.4 Typical radio parameter sets

6.10.3.4.1 Combinations on DPCH

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

6.10.3.4.1.1.1 Uplink

6.10.3.4.1.1.1 Transport channel parameters

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

Higher layer	RAB/signalling RB	SRB#1	SRB#2	SRB#3	SRB#4		
	User of Radio 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 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		1x148				
	TTI, ms		80				
	Coding type		CC 1/3				
	CRC, bit		16				
	Max number of bits/TTI before rate matching		516				
	Max number of bits/radio frame beforate matching	ore	65				
	RM attribute		155-185				
NOTE: alternativ	re parameters enable the measurement	transport channe	I BLER" in the l	JTRAN.			

6.10.3.4.1.1.1.2 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.				

6.10.3.4.1.1.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips				
	Codes and time slots	SF16 x 1 code x 1 time slot				
	Max. Number of data bits/radio frame	234				
	TFCI code word	8 bits				
	TPC	2 bits				
	Puncturing Limit	1				
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be						
4 bits						

6.10.3.4.1.1.2 Downlink

6.10.3.4.1.1.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		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		1700	1600	1600	1600	
	AMD/UMD PDU hea	der, bit	8	16	16	16	
MAC	MAC header, bit		4	4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type		DCH				
	TB sizes, bit		148 (alt. 0,148) (note)				
	TFS	TF0, bits	0 x148 (alt. 1x0) (note)				
		TF1, bits	1x148				
	TTI, ms		80				
	Coding type	Coding type		CC 1/3			
	CRC, bit		16				
	Max number of bits/	TTI before rate	516				
	matching						
	Max number of bits/r	Max number of bits/radio frame before		6	5		
	rate matching						
	RM attribute	RM attribute		155-185			
NOTE: alternative	e parameters enable the	measurement "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		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	e	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		1700	1600	1600	1600	
	AMD/UMD PDU header, bit		8	16	16	16	
MAC	MAC header, bit		4	4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type		DCH				
	TB sizes, bit		148				
	TFS	TF0, bits	0x148				
	TF1, bits		1x148				
	TTI, ms	TTI, ms		20			
	Coding type	Coding type		CC 1/3			
	CRC, bit	CRC, bit		16			
	Max number of bits	Max number of bits/TTI before rate		516			
	matching						
		/radio frame before		25	58		
	rate matching	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					

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		SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Bear	User of Radio Bearer		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	AMD/UMD PDU header, bit		16	16	16	
MAC	MAC header, bit	MAC header, bit		4	4	4	
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type		DCH				
	TB sizes, bit		148				
	TFS	TFS TF0, bits		0 x148			
		TF1, bits	1x148				
	TTI, ms	TTI, ms		20			
	Coding type	Coding type		CC 1/3			
	CRC, bit			16			
	Max number of bits matching	Max number of bits/TTI before rate matching		51	16		
	Max number of bits rate matching	Max number of bits/radio frame before rate matching		25	58		

6.10.3.4.1.1a.2.1.2 TFCS

TFCS size	2		
TFCS	SRBs for DCCH = (TF0), (TF1)		
Note: The first TFC 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 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 channel multiplexing				
Layer 1	TrCH type	DCH				
	TB sizes, bit	148 (alt. 0,148) (note)				
	TFS TF0, bits	0x148 (alt. 1x0) (note)				
	TF1, bits		1x′	148		
	TTI, ms		4	0		
	Coding type	CC 1/3				
	CRC, bit	16				
	Max number of bits/TTI before rate matching	516				
	Max number of bits/radio frame before rate matching	129				
	RM attribute	155-165				
NOTE: alternativ	e parameters enable the measurement "tran	sport channel	BLER" in the l	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	User of Radio Bearer		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 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	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		4	0		
	Coding type	Coding type		CC 1/3			
	CRC, bit			16			
	Max number of bits/T matching	Max number of bits/TTI before rate matching		516			
	Max number of bits/ra rate matching	Max number of bits/radio frame before rate matching		129			
	RM attribute	RM attribute		155-165			
NOTE: alternativ	e parameters enable the r	neasurement "tran	sport channel	BLER" in the U	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	Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 4					
bits						

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

6.10.3.4.1.3.1 Uplink

6.10.3.4.1.3.1.1 Transport channel parameters

6.10.3.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4		
	User of Radio Bear	User of Radio Bearer		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		13600	12800	12800	12800		
	AMD/UMD PDU he	eader, bit	8	16	16	16		
MAC	MAC header, bit	MAC header, bit		4	4	4		
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	TrCH type		DCH				
	TB sizes, bit	TB sizes, bit		148 (alt. 0,148) (note)				
	TFS	TFS TF0, bits		0x148 (alt. 1x0) (note)				
		TF1, bits		1x1	48			
	TTI, ms			1	0			
	Coding type		CC 1/3					
	CRC, bit		16					
	Max number of bits	/TTI before rate	516					
	matching							
	Max number of bits	Max number of bits/radio frame before		51	6			
rate matching								
NOTE: alternativ	e parameters enable th	e measurement "tran	sport channel	BLER" in the U	JTRAN.			

6.10.3.4.1.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = (TF0), (TF1)
Note: The first TFC	is required for the alt. case, optional otherwise.

6.10.3.4.1.3.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips		
	Codes and time slots	SF8 x 1 code x 1 time slot		
	Max. Number of data bits/radio frame	468 bits		
	TFCI code word	8bits		
	TPC	2 bits		
	Puncturing Limit	0.88		
Note: In case the first TFC in the TFCS is not configured, the TFCI code 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	User of Radio Bearer		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		13600	12800	12800	12800		
	AMD/UMD PDU he	eader, bit	8	16	16	16		
MAC	MAC header, bit	MAC header, bit		4	4	4		
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	TrCH type		DCH				
	TB sizes, bit	TB sizes, bit		148 (alt. 0,148) (note)				
	TFS	TF0, bits	0x148 (alt. 1x0) (note)					
		TF1, bits		1x1	48			
	TTI, ms	TTI, ms		1	0			
	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		51	16			
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 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 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 (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 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 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

Logical cha RLC mode Payload siz Max data ra TrD PDU he MAC heade MAC multip TrCH type TB sizes, bi	es, bit ate, bps eader, bit er, bit	TM 39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81)	DTCH TM 53, 63, 84, 103 12200 0	TM 60
Payload siz Max data ra TrD PDU he MAC heade MAC multip TrCH type	ate, bps eader, bit er, bit	39, 42, 55, 75, 81 (alt. 0, 39, 42, 55,	53, 63, 84, 103 12200 0	
Max data ra TrD PDU he MAC heade MAC multip TrCH type	ate, bps eader, bit er, bit	(alt. 0, 39, 42, 55,	12200	60
TrD PDU he MAC heade MAC multip TrCH type	eader, bit er, bit		0	
MAC heade MAC multip TrCH type	er, bit		<u>-</u>	
MAC multip TrCH type			0	
TrCH type	lexing			
			N/A	
TB sizes, bi		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
		152	167	68
RM attribute	9	180-220	170-210	215-256
	TI, ms Coding type CRC, bit Max numbe channel coo Max numbe pefore rate RM attribute	TF1, bits TF2 bits TF3, bits TF4, bits TF5, bits TF1, ms Coding type CRC, bit Max number of bits/TTI after channel coding Max number of bits/radio frame before rate matching RM attribute	(note)	TFS TF0, bits 0x81(alt. 1x0) (note) 0x103 TF1, bits 1x39 1x53 TF2 bits 1x42 1x63 TF3, bits 1x55 1x84 TF4, bits 1x75 1x103 TF5, bits 1x81 N/A TI, ms 20 20 Coding type CC 1/3 CC 1/3 CRC, bit 12 N/A Max number of bits/TTI after shannel coding 303 333 Max number of bits/radio frame perfore rate matching 152 167

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,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 TFC 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

Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) 6.10.3.4.1.4a.2.1.1 kbps / CS RAB

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type		DTCH	ı
	RLC mode	TM	TM	TM
	Payload sizes, bit	39, 42, 55, 75, 81 (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 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
	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	Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.			

6.10.3.4.1.4a.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
TFCI code word		16 bits
	Puncturing limit	0.76

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

6.10.3.4.1.5.1 Uplink

6.10.3.4.1.5.1.1 Transport channel parameters

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

Higher 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, 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 multi	plexing		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

number of Trbiks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in 25.222).

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.5.1.1.3 TFCS

TFCS size	6			
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=			
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),			
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1)			
Note: In case TB siz	Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.			

6.10.3.4.1.5.1.2 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/Signal	lling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical cha	nnel type		DTCH	
	RLC mode	7.	TM	TM	TM
	Payload siz	es, bit	39,65 (alt. 0, 39, 65)	99	40
	Max data ra	ate, bps		10200	
	TrD PDU h	eader, bit		0	
MAC	MAC heade	er, bit		0	
	MAC multip	lexing		N/A	
Layer 1	TrCH type		DCH	DCH	DCH
•	TB sizes, bit			99	40
			39, 65 (alt.0,39,65)		
	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	e	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	
	Puncturing limit	0.40

6.10.3.4.1.5a Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.5a.1 Uplink

6.10.3.4.1.5a.1.1 Transport channel parameters

6.10.3.4.1.5a.1.1.1 Transport channel parameters for Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB

Higher Layer	RAB/Sign	alling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type			DTCH	
	RLC mode		TM	TM	TM
	Payload s	izes, bit	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 head	der, bit		0	
	MAC mult	iplexing		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
	Max number of bits/radio frame before rate matching		128	161	48
	RM attribu		180-220	170-210	215-256
NOTE:		ing this alternative, CR0 Blks are 1 even if there			

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 cha	annel 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 ł	neader, bit		0		
MAC	MAC head	ler, bit		0		
	MAC multi	plexing		N/A		
Layer 1	TrCH type		DCH	DCH	DCH	
	TB sizes, t	oit	39, 42, 55, 58, 65 (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, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.222).			

6.10.3.4.1.5a.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.5a.2.1.3 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,DCCH)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),
	(TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF5,TF4,TF1,TF1)
Note: In case TB s	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.5a.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 codes x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.40

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

6.10.3.4.1.6.1 Uplink

6.10.3.4.1.6.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTC	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	0	
	MAC multiplexing	N/A	N/A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 75 (alt. 0, 39, 75)	84	
	TFS TF0, bits	0x75 (alt. 1x0) (note)	0x84	
	TF1, bits	1x39	1x84	

TF2, bits	1x75	N/A	
TTI, ms	20	20	
Coding type	CC 1/3	CC 1/3	
CRC, bit	12	N/A	
Max number of bits/TTI after channel coding	285	276	
Max number of bits/radio frame before rate matching	143	138	
RM attribute	180-220	170-210	
IOTE: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clauses 4.2.1.1 in TS25.222)			

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.6.1.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)
Note: In case TB:	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.6.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44

6.10.3.4.1.6.2 Downlink

6.10.3.4.1.6.2.1 Transport channel parameters

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

Higher Layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical ch	annel type	DTC	H	
	RLC mode	e	TM	TM	
	Payload s	izes, bit	39, 75 (alt. 0, 39, 75)	84	
	Max data rate, bps		795	7950	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0		
	MAC mult	iplexing	N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes,	bit	39, 75 (alt. 0, 39, 75)	84	
	TFS	TF0, bits	0x75 (alt. 1x0) (note)	0x84	
1	(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		
	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 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	
	(note 1)	TF1, bits	1x39	1x87	
		TF2, bits	1x61	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

	Max number of bits/TTI after channel coding	243	285	
Max number of bits/radio frame before rate		122	143	
	matching			
	RM attribute	180-220	170-210	
).				
NOTE:				
	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 TI	B size zero is configured for any transport channel, the first TFC is required; optional otherwise

6.10.3.4.1.7.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.48

6.10.3.4.1.7a Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.7a.1 Uplink

6.10.3.4.1.7a.1.1 Transport channel parameters

6.10.3.4.1.7a.1.1.1 Transport channel parameters for Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB

Higher layer	RAB/Sig	nalling RB	RAB subflow #1	RAB subflow #2		
RLC	Logical	channel type	DT	СН		
	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	74	00		
	TrD PDU header, bit		(0		
MAC	MAC he	ader, bit	(0		
	MAC multiplexing		N/	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	7400	0	
	TrD PDU header, bit		0		
MAC	MAC hea	ader, bit	0	0	
	MAC multiplexing		N/A		
Layer 1	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 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 s	Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.	

6.10.3.4.1.7a.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	DTO	CH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	Max data rate, bps	670	6700	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/.	A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	TFS TF0, bits	0x58 (alt. 1x0) (note)	0x76	
	TF1, bits	1x39	1x76	

TF2, bits	1x58	N/A
TTI, ms	20	20
Coding type	CC 1/3	CC 1/3
CRC, bit	12	N/A
Max number of bits/TTI after channel coding	234	252
Max number of bits/radio frame before rate	117	126
matching		
RM attribute	180-220	170-210
NOTE: In case of using this alternative, CRC parity bits are	to be attached to RAB subflo	w#1 any time since number
of TrBlks are 1 even if there is no data on RAB sub-	flow#1 (see clause 1211 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	DTCH	
	RLC mod	e	TM	TM	
	Payload s	sizes, bit	39, 58 (alt. 0, 39, 58)	76	
	Max data rate, bps		670	0	
	TrD PDU header, bit		0		
MAC	MAC header, bit		0	0	
	MAC multiplexing		N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, bit		39, 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

6.10.3.4.1.9.1 Uplink

6.10.3.4.1.9.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	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	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:	IOTE: 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 T	B size 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	DTCH	
	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:	NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there		

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 T	B size 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	DTCH	
	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 T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.10.1.2 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 Layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	CH	
	RLC mode		TM	TM	
	Payload s	izes, 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	0	
	MAC multiplexing		N/A	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	
	(note 1)	TF1, bits	1x39	1x54	
		TF2, bits	1x49	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

	Max number of bits/TTI after channel coding	207	186
Max number of bits/radio frame before rate		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 the		Blks are 1 even if there is
	no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).		

Transport channel parameters for DL: 1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1. 6.10.3.4.1.1.2.1.1.

6.10.3.4.1.10.2.1.3 TFCS

6.10.3.4.1.10.2.1.2

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.

6.10.3.4.1.10.2.2 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 subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	DTCH	
	RLC mode		TM	TM	
	Payload	sizes, bit	39, 42 (alt. 0, 39, 42)	53	
	Max data	rate, bps	475	4750	
	TrD PDU header, bit		0	0	
MAC	MAC header, bit		0	0	
	MAC multiplexing		N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, bit		39, 42 (alt. 0, 39, 42)	53	
	TFS	TF0, bits	0x42 (alt. 1x0) (note)	0x53	
		TF1, bits	1x39	1x53	
		TF2, bits	1x42	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

	Max number of bits/TTI after channel coding	186	183
Max number of bits/radio frame before rate		93	92
matching			
RM attribute		180-220	170-210
NOTE:	E: In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since numl		
	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 TB 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/Signalling RB		RAB subflow #1	RAB subflow #2	
RLC	Logical channel type		DTC	DTCH	
i	RLC mode		TM	TM	
	Payload s	izes, 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	0	
	MAC multiplexing		N/A	N/A	
Layer 1	TrCH type		DCH	DCH	
	TB sizes, bit		39, 42 (alt. 0, 39, 42)	53	
	TFS	TF0, bits	0X42 (alt.1x0)(note)	0x53	
	(note 1)	TF1, bits	1x39	1x53	
		TF2, bits	1x42	N/A	
	TTI, ms		20	20	
	Coding type		CC 1/3	CC 1/3	
	CRC, bit		12	N/A	

Max number of bits/TTI after channel coding	186	183
Max number of bits/radio frame before rate	93	92
matching		
RM attribute	180-220	170-210
NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is		

NOTE: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS25.222).

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

See clause 6.10.3.4.1.1.2.1.1.

6.10.3.4.1.11.2.1.3 TFCS

TFCS size	6	
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=	
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0),	
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.11.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.76

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

6.10.3.4.1.12.1 Uplink

6.10.3.4.1.12.1.1 Transport channel parameters

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

Higher Layer	RAB/Sign	alling RB	RAB
RLC	Logical channel type		DTCH
	RLC mod	e	TM
	Payload s	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 attribu	ute	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	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 siz	re zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.12.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.40
Note: In case the f	irst TFC in the TFCS is not configured, th	ne 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, b	oit	640
	Max data rate, b	ps	64000
	TrD PDU heade	r, bit	0
MAC	MAC header, bit		0
	MAC multiplexin	g	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		640
	TFS	TF0, bits	0x640
		TF1, bits	2x640
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		3948
	Max number of bits/radio frame before rate		1974
	matching		
	RM attribute		150-195

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.13.1.1.3 TFCS

TFCS size	4
TFCS	(64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.13.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot + SF4 x 1 code x
		1 time slot
	Max. Number of data bits/radio frame	1148 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be 8 bits.		

6.10.3.4.1.13.2 Downlink

6.10.3.4.1.13.2.1 Transport channel parameters

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

Higher	RAB/Signalling RB		RAB
Layer RLC	Logical channel type		DTCH
0	RLC mode	1,750	TM
	Payload sizes, I	bit	640
	Max data rate, b		64000
	TrD PDU heade		0
MAC	MAC header, bi	t	0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		640
	TFS	TF0, bits	0x640
		TF1, bits	2x640
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		3948
	Max number of bits/radio frame before rate		1974
	matching		
	RM attribute		150-195

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.13.2.1.3 TFCS

TFCS size	4	
TFCS	(64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.13.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing limit	0.52
Note: In case the	first TFC in the TFCS is not configured, th	ne 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		

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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/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
	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 matching	990
	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, th	ne 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 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	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
1120	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, th	e 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/Sign	alling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		TM
	Payload s	izes, bit	576
	Max data	rate, bps	28800
	TrD PDU	header, bit	0
MAC	MAC head	der, bit	0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		576
	TFS	TF0, bits	0x576
		TF1, bits	1x576
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		3564
	Max number of bits/radio frame before rate matching		891
	RM attribute		135-175

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.16.1.1.3 TFCS

TFCS size	4
TFCS	(28.8kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.16.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips	
	Codes and time slots	SF8 x 1 code x 1 time slot	
	Max. Number of data bits/radio frame	452 bits	
	TFCI code word	16 bits	
	TPC	2 bits	
	Puncturing Limit 0.44		
Note: In case the first TFC in the TFCS is not configured, the TFCI code word will be			
8 bits			

6.10.3.4.1.16.2 Downlink

6.10.3.4.1.16.2.1 Transport channel parameters

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

Higher 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 f	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 Layer	RAB/Signalling RB		RAB
RLC	Logical channel type		DTCH
0	RLC mod		TM
		sizes, bit	576
		a rate, bps	57600
		J header, bit	0
MAC	MAC hea	ader, bit	0
	MAC mu	ıltiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes		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 nun	nber of bits/TTI after channel coding	7116
	Max number of bits/radio frame before rate matching		1779
	RM attrib	oute	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		0.44	

6.10.3.4.1.17.2 Downlink

6.10.3.4.1.17.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	57600
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TF3, bits	3x576
	TF4, bits	4x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	7116
	Max number of bits/radio frame before rate	1779
	matching	
	RM attribute	125-165

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.17.2.1.3 TFCS

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

512 chips

DPCH Downlink

Midamble

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

6.10.3.4.1.23.1 Uplink

6.10.3.4.1.23.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320 (alt. 128)
	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 (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	
	(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		
	RM attribute		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 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/Sig	nalling RB	RAB
RLC	Logical c	hannel 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 hea	ader, bit	0
	MAC mu	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	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 number of bits/radio frame before rate matching		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 size 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 o	channel type	DTCH
	RLC mo		AM
	Payload	sizes, bit	320 (alt. 128)
	Max data	a rate, bps	32000
	AMD PD	U header, bit	16
MAC	MAC hea	ader, bit	0
	MAC mu	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. 5x144)
		TF3, bits	3x336 (alt. 7x144)
		TF4, bits	4x336 (alt. 10x144)
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max num	nber of bits/TTI after channel coding	4236 (alt. 4812)
	Max number of bits/radio frame before rate matching		1059 (alt. 1203)
	RM attrib	oute	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		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/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
	Max number of bits/radio frame before rate	1059
	matching	
	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 TE	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.23c.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 3 codes x 1 time slot
	Max. Number of data bits/radio frame	716
	TFCI code word	16 bits
	Puncturing limit	0.60

6.10.3.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4

kbps SRBs for DCCH

6.10.3.4.1.23d.1 Uplink

6.10.3.4.1.23d.1.1 Transport channel parameters

6.10.3.4.1.23d.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

Higher layer	RAB/Sig	nalling RB	RAB
RLC	Logical o	channel type	DTCH
	RLC mod	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 num	nber of bits/TTI after channel coding	2124 (alt. 2412)
		nber of bits/radio frame before rate	1062 (alt. 1206)
	matching RM attribute		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 size 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/Sig	nalling RB	RAB
RLC	Logical c	hannel type	DTCH
	RLC mod	de	AM
	Payload	sizes, bit	320
	Max data	a rate, bps	32000
	AMD PD	U header, bit	16
MAC	MAC hea	ader, bit	0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes	, bit	336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms		20
	Coding ty		TC
	CRC, bit		16
		nber of bits/TTI after channel coding	2124
	Max number of bits/radio frame before rate matching		1062
	RM attrib	oute	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

Uplink

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

See clause 6.10.3.4.1.23.1.

6.10.3.4.1.25.1

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 ch	nannel type	DTCH	
	RLC mod	e	AM	
	Payload s	sizes, bit	320 (alt.128)	
	Max data	rate, bps	64000	
	AMD PDU	J header, bit	16	
MAC	MAC head	der, bit	0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	
	TB sizes, bit		336 (alt. 144)	
	TFS	TF0, bits	0x336 (alt. 0x144)	
		TF1, bits	1x336 (alt. 1x144)	
		TF2, bits	2x336 (alt. 3x144)	
		TF3, bits	3x336 (alt. 7x144)	
		TF4, bits	4x336 (alt. 10x144)	
	TTI, ms		20	
	Coding type		TC	
	CRC, bit		16	
	Max number of bits/TTI after channel coding		4236 (alt. 4812)	
	Max number of bits/radio frame before rate matching		2118 (alt. 2406)	
	RM attribute		130-170	

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.26.1.1.3 TFCS

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

6.10.3.4.1.26.1.2 Physical channel parameters

DPCH Uplink		Physical Configuration 1	Physical Configuration 2
	Midamble	512 chips	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot +	SF2 x 1 code x 1 time slot + SF4
		SF4 x 1 code x 1 time slot	x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1148 bits	2784 bits
	TFCI code word	16 bits	16 bits
	TPC	2 bits	2 bits
	Puncturing Limit	0.48 (alt. 0.44)	1

6.10.3.4.1.26.2 Downlink

See clause 6.10.3.4.1.25.2.

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

for DCCH

6.10.3.4.1.27.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.27.2 Downlink

6.10.3.4.1.27.2.1 Transport channel parameters

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

Higher Layer	RAB/Sigr	nalling RB	RAB	
RLC	Logical channel type		DTCH	
	RLC mod		AM	
	Payload:	sizes, bit	320	
	Max data	rate, bps	128000	
	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	4 x336	
		TF4, bits	8 x336	
	TTI, ms		20	
	Coding ty	/pe	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 si	ze 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	alling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		AM
	Payload siz	zes, bit	320
	Max data r	ate, bps	144000
	AMD PDU	header, bit	16
MAC	MAC header, bit		0
	MAC 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/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320 (alt. 128)
	Max data rate, bps	144000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS TF0, bits	0x336 (alt. 0x144)
	TF1, bits	1x336 (alt. 1x144)
	TF2, bits	2x336 (alt. 10x144)
	TF3, bits	4 x336 (alt. 20x144)
	TF4, bits	8 x336 (alt. 30x144)
	TF5, bits	9 x336 (alt. 45x144)
	TTI, ms	20 (alt. 40)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	9516 (alt. 21624)
	Max number of bits/radio frame before rate matching	4758 (alt. 5406)
	RM attribute	140-180

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.30.1.1.3 TFCS

TFCS size	12	
TFCS	(144 kbps RAB, DCCH)=	
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)	
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)	
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.		

6.10.3.4.1.30.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF16 x 1 code x 1 time slot + SF2 x 1 codex
		1 time slot
	Max. Number of data bits/radio frame	2340 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44(alt. 0.40)

6.10.3.4.1.30.2 Downlink

See clause 6.10.3.4.1.29.2.

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

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.31.1 Uplink

See clause 6.10.3.4.1.26.1

6.10.3.4.1.31.2 Downlink

6.10.3.4.1.31.2.1 Transport channel parameters

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

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

6.10.3.4.1.32.2.1.2 Transport channel parameters for 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 si	ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.34.1.2 Physical channel parameters

DPCH Uplink		Physical	Physical Configuration 2
		Configuration 1	
	Midamble	256 chips	256 chips
	Codes and time slots	SF2 x 1 code x 3	SF2 x 1 code x 5 timeslots +
		time slots	SF4 x 1 code x 2 timeslots
			(alt. {SF2 x 1 code + SF4 x 1
			code} x 4 timeslots)
	Max. Number of data	6480 bits	13104 bits
	bits/radio frame		
	TFCI code word	16 bits	16 bits
	TPC	2 bits	2 bits
	Puncturing Limit	0.48	1

6.10.3.4.1.34.2 Downlink

See clause 6.10.3.4.1.32.2.

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

SRBs for DCCH

6.10.3.4.1.35.1 Uplink

6.10.3.4.1.35.1.1 Transport channel parameters

See clause 6.10.3.4.1.26.1.1

6.10.3.4.1.35.1.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.88 (alt. 0.80)

6.10.3.4.1.35.2 Downlink

6.10.3.4.1.35.2.1 Transport channel parameters

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

Higher 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
Layor	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	62565(alt. 64571)
	matching	
	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))

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

Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB 6.10.3.4.1.38.1.1.1 See clause 6.10.3.4.1.4.1.1.1

6.10.3.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB See clause 6.10.3.4.1.23.1.1.1.

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

6.10.3.4.1.38.1.1.4 TFCS

TFCS size	18
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF0, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1)
Note: In case TB size	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.38.1.2 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 siz	Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.38.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.52

6.10.3.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38a.1 Uplink

6.10.3.4.1.38a.1.1 Transport channel parameters

6.10.3.4.1.38a.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.38a.1.1.2 Transport channel parameters for Interactive or background / UL:0 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320 (alt. 128)
	Max data rate, bps	0
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336 (alt. 144)
	TFS TF0, bits	0x336 (alt 0x144)
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	0
	Max number of bits/radio frame before rate matching	0
	RM attribute	130-170

6.10.3.4.1.38a.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38a.1.1.4 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF1,TF0,TF1)
Note: In case TB 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,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)
	(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,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))
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38b.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	B 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/Sigr	nalling RB	RAB	RAB
RLC	Logical cl	nannel type	DTCH	DTCH
	RLC mod	e	AM	AM
	Payload s	sizes, bit	320 (alt. 128)	320 (alt. 128)
		rate, bps	64000	64000
	AMD PDI	J header, bit	16	16
MAC	MAC hea	der, bit	4	4
	MAC mul	tiplexing	2 logical chann	el multiplexing
Layer 1	TrCH type	е	DCH	
	TB sizes, bit		340 (alt. 148)	
	TFS	TF0, bits	0x340 (a	lt 0x148)
		TF1, bits	1x340 (a	lt 1x148)
		TF2, bits	2x340 (a	,
		TF3, bits	3x340 (a	lt 7x148)
		TF4, bits	4x340 (alt 10x148)	
	TTI, ms		20	
	Coding ty	pe	TC	
	CRC, bit		_	
	Max number of bits/TTI after channel coding Max number of bits/radio frame before rate matching 4284 (alt. 4932) 2142 (alt. 2466)		, ,	
			t. 2466)	
	RM attrib		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,TF2,TF0), (TF1,TF0,TF0,TF2,TF0),(TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)
Note: In case TB 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/Sigi	nalling RB	RAB	RAB	
RLC	Logical channel type		DTCH	DTCH	
	RLC mod		AM	AM	
	Payload :	sizes, bit	320	320	
	Max data	rate, bps	64000	64000	
	AMD PD	U header, bit	16	16	
MAC	MAC hea	der, bit	4	4	
	MAC mu	Itiplexing	2 logical chan	nel multiplexing	
Layer 1	TrCH type		D	DCH	
	TB sizes,	bit	340		
	TFS	TF0, bits	0x	340	
		TF1, bits	1x	340	
		TF2, bits	2x	340	
		TF3, bits	3x	340	
		TF4, bits	4x340		
	TTI, ms		20		
	Coding type		TC		
	CRC, bit		16		
		ber of bits/TTI after channel coding	4284		
	Max number of bits/radio frame before rate matching		2°	142	
	RM attribute		130)-170	

6.10.3.4.1.38d.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.38d.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0),(TF2,TF1,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0),(TF2,TF1,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0),(TF2,TF1,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),(TF2,TF1,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),(TF2,TF1,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1),(TF2,TF1,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1),(TF2,TF1,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1),(TF2,TF1,TF1,TF4,TF1)
Note: In case TB s	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,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 TB size zero is configured for any transport channel the first TEC is required; it is optional otherwise.	

6.10.3.4.1.38e.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.68

6.10.3.4.1.38e.2 Downlink

6.10.3.4.1.38e.2.1 Transport channel parameters

6.10.3.4.1.38e.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1. 4a.2.1.1.

6.10.3.4.1.38e.2.1.2 Transport channel parameters for Interactive or background / DL:0 kbps / PS RAB See clause 6.10.3.4.1.38a.2.1.2

6.10.3.4.1.38e.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38e.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 0 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
Note: In case TB	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38e.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.1.38f
Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.38f.1
Uplink
6.10.3.4.1.38f.1.1
Transport channel parameters
6.10.3.4.1.38f.1.1.1
Transport channel parameters for Conversational / speech / UL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.1.1.1.

6.10.3.4.1.38f.1.1.2 Transport channel parameters for Interactive or background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

6.10.3.4.1.38f.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.38f.1.1.4 TFCS

TFCS size	24 (alt. 32)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)
	(alt.
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1)
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0, TF0, TF2, TF1))
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38f.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48 (alt.0.56)

6.10.3.4.1.38f.2 Downlink

6.10.3.4.1.38f.2.1 Transport channel parameters

6.10.3.4.1.38f.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38f.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.38f.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38f.2.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 8 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0), (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)
Note: In case 7	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), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0),
	(TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,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,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,TF2,TF0),
	(TF1,TF0,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0),
	(TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1),
	(TF5,TF4,TF1,TF0,TF1), (TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF3,TF2,TF0,TF2,TF1),
	(TF4,TF3,TF0,TF2,TF1))
Note 1: In case TB	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38g.1.2 Physical channel parameters

Note 2: The alt. TFCS is used when the 16Kbps RAB alt. is used.

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

See clause 6.10.3.4.1.4a.1.1.1.

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.

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,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),
	(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 T	B size 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,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0),
	(TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0),
	(TF0,TF0,TF3,TF0), (TF1,TF0,TF0,TF3,TF0), (TF2,TF1,TF0,TF3,TF0),
	(TF3,TF2,TF0,TF3,TF0), (TF4,TF3,TF0,TF3,TF0), (TF5,TF4,TF1,TF3,TF0),
	(TF0,TF0,TF0,TF4,TF0), (TF1,TF0,TF0,TF4,TF0), (TF2,TF1,TF0,TF4,TF0),
	(TF3,TF2,TF0,TF4,TF0), (TF4,TF3,TF0,TF4,TF0), (TF5,TF4,TF1,TF4,TF0),
	(TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1),
	(TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1),
	(TF0,TF0,TF1,TF1), (TF1,TF0,TF0,TF1,TF1), (TF2,TF1,TF0,TF1,TF1),
	(TF3,TF2,TF0,TF1,TF1), (TF4,TF3,TF0,TF1,TF1), (TF5,TF4,TF1,TF1,TF1),
	(TF0,TF0,TF0,TF2,TF1), (TF1,TF0,TF0,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,TF3,TF1), (TF1,TF0,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),
	(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)
Note: In case TB si	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38i.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 7 codes x 1 time slot
	Max. Number of data bits/radio frame	1900 bits
	TFCI code word	32 bits
	Puncturing limit	0.68

6.10.3.4.1.38j Conversational / speech / (12.2, 7.95, 5.9, 4.75) kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38j.1 Uplink

See clause 6.10.3.4.1.38i.1

6.10.3.4.1.38j.2 Downlink

6.10.3.4.1.38j.2.1 Transport channel parameters

6.10.3.4.1.38j.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.2, 7.95, 5.9, 4.75) kbps / CS RAB

See clause 6.10.3.4.1.4a.2.1.1.

6.10.3.4.1.38j.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.38j.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.38j.2.1.4 TFCS

TFCS size	60
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0),
	(TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0), (TF5,TF4,TF1,TF0,TF0),
	(TF0,TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0),
	(TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0),
	(TF0,TF0,TF0,TF2,TF0), (TF1,TF0,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,TF2,TF1), (TF2,TF1,TF0,TF2,TF1),
	(TF3,TF2,TF0,TF2,TF1), (TF4,TF3,TF0,TF2,TF1), (TF5,TF4,TF1,TF2,TF1),
	(TF0,TF0,TF0,TF3,TF1), (TF1,TF0,TF3,TF1), (TF2,TF1,TF0,TF3,TF1),
	(TF3,TF2,TF0,TF3,TF1), (TF4,TF3,TF0,TF3,TF1), (TF5,TF4,TF1,TF3,TF1),
	(TF0,TF0,TF0,TF4,TF1), (TF1,TF0,TF0,TF4,TF1), (TF2,TF1,TF0,TF4,TF1),
	(TF3,TF2,TF0,TF4,TF1), (TF4,TF3,TF0,TF4,TF1), (TF5,TF4,TF1,TF4,TF1)
Note: In case TB s	ize zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.38j.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 6 codes x 2 time slots
	Max. Number of data bits/radio frame	3280 bits
	TFCI code word	32 bits
	Puncturing limit	0.64

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

6.10.3.4.1.39.1 Uplink

See clause 6.10.3.4.1.38.1.

6.10.3.4.1.39.2 Downlink

6.10.3.4.1.39.2.1 Transport channel parameters

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

6.10.3.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.39.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
Note: In case TB	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 TI	B 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, 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, 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.	

6.10.3.4.1.40.2.2 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 TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.41.2.1.4.2.2 TFCS (Interactive or background)

TFCS size	5		
TFCS	CCS (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 size 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, 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, 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))
Note: In case TB s	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.42.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 2 time slots
		+SF16 x 4 codes x 1 time slot
	Max. Number of data bits/radio frame	5504 bits (alt. 5488)
	TFCI code word	16 bits (alt. 32)
	Puncturing limit	0.60

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

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.43.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.43.2 Downlink

6.10.3.4.1.43.2.1 Transport channel parameters

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

6.10.3.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.3.4.1.32.2.1.1.

6.10.3.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.43.2.1.4 TFCS

6.10.3.4.1.43.2.1.4.1 TFCS (one CCTrCH case)

TFCS size	36 (alt. 54)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)
	(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
	(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1)
	(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))
Note: In case TB s	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.

6.10.3.4.1.43.2.1.4.2 TFCS (two CCTrCH case)

6.10.3.4.1.43.2.1.4.2.1 TFCS (conversational + SRB)

TFCS size	6	
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)= (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, 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.		

6.10.3.4.1.43.2.1.4.2.2 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, 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	Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise.	

6.10.3.4.1.43.2.2 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, 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.

6.10.3.4.1.44.1.2 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), (TF1, TF15, TF1), (TF2, TF1, TF15, TF1), (TF2, 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, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
Note: In case TB si	ze zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.45.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1448 bits
	TFCI code word	16 bits
	Puncturing limit	0.56

6.10.3.4.1.46 Void 6.10.3.4.1.47 Void 6.10.3.4.1.48 Void 6.10.3.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49.1 Uplink

6.10.3.4.1.49.1.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.1.1.1.

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

See clause 6.10.3.4.1.13.1.1.1.

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

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.49.1.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)
Note: In case TB s	ize zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.49.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72

6.10.3.4.1.49.2 Downlink

6.10.3.4.1.49.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.4.2.1.1.

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

See clause 6.10.3.4.1.13.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.49.2.1.4 TFCS

TFCS size	12	
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=	
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),	
	(TF0, TF0, 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 siz	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 T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.50.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF2 x 1 code x 1time slot + SF4 x 1
		code x 1 time slot
	Max. Number of data bits/radio frame	2784bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.60

6.10.3.4.1.50.2 Downlink

6.10.3.4.1.50.2.1 Transport channel parameters

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

See clause 6.10.3.4.1.13.2.1.1.

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

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.50.2.1.3 TFCS

TFCS size	8
TFCS	(64 kbps RAB, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1)
Note: In case T	B size zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.50.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 6codes x 2 time slots
	Max. Number of data bits/radio frame	2912bits
	TFCI code word	16 bits
	Puncturing limit	0.64

6.10.3.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51.1 Uplink

6.10.3.4.1.51.1.1 Transport channel parameters

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

6.10.3.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.26.1.1.1.

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

6.10.3.4.1.51.1.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)
Note: In case TB	size zero is configured for any transport channel, the first TFC is required; it is optional otherwise

6.10.3.4.1.51.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44 (alt.0.40)

6.10.3.4.1.51.2 Downlink

6.10.3.4.1.51.2.1 Transport channel parameters

6.10.3.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51.2.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)
Note: In case TB si	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, 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 TB	size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.51a.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.76

6.10.3.4.1.51a.2 Downlink

6.10.3.4.1.51a.2.1 Transport channel parameters

6.10.3.4.1.51a.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / PS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51a.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1

6.10.3.4.1.51a.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.51a.2.1.4 TFCS

TFCS size	8
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.

6.10.3.4.1.51a.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1640 bits
	TFCI code word	16 bits
	Puncturing limit	0.60

6.10.3.4.1.51b Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51b.1 Uplink

6.10.3.4.1.51b.1.1 Transport channel parameters

6.10.3.4.1.51b.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51b.1.1.2 Transport channel parameters for Interactive or Background / UL:16 kbps / PS RAB See clause 6.10.3.4.1.23b.1.1.1

6.10.3.4.1.51b.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.51b.1.1.4 TFCS

TFCS size	12
TFCS	(64 kbps Conversational RAB, 16 kbps I/B RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF0, TF1), (TF0, TF1, TF1), (TF0,
	TF2, TF1), (TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF0, TF1), (TF1, TF1,
	TF1), (TF1, TF2, TF1)
Note: In case TB 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	Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.52.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips	
	Codes and time slots	{SF16 x 8 codes x 1 time slot} +	
		{SF16 x 5 codes x 1 time slot}	
	Max. Number of data bits/radio frame	3156 bits	
	TFCI code word	16 bits	
	Puncturing limit	0.44	

6.10.3.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

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

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.53.1 Uplink

6.10.3.4.1.53.1.1 Transport channel parameters

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

6.10.3.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.53.1.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)
Note: In case TB size zero is configured for any transport channel, the first TFC is required; it is optional otherwise	

6.10.3.4.1.53.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF2 x 1 code x 2 timeslots
	Max. Number of data bits/radio frame	3760 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52 (alt. 0.48)

6.10.3.4.1.53.2 Downlink

See clause 6.10.3.4.1.52.2.

6.10.3.4.1.54 Void

6.10.3.4.1.55 Void

6

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

6.10.3.4.1.56.1 Uplink

6.10.3.4.1.56.1.1 Transport channel parameters

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

Higher 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 multiplexing		2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
	TB sizes	, bit	340 (alt. 148)	
	TFS	TF0, bits	0x340 (a	lt. 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 (a	lt.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
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52 (alt. 0.48)
Note: In case the	ne 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	0x3	40
	TF1, bits	1x3	40
	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	27	0
	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 +	

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

UL:64 kbps / PS RAB

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
DECH OPIIIK	Midamble	230 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.88 (alt. 0.76)

6.10.3.4.1.57.2 Downlink

6.10.3.4.1.57.2.1 Transport channel parameters

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

Higher layer	RAB/Sign	alling RB	RAB	RAB
RLC	Logical ch	annel type	DTCH	DTCH
	RLC mod	e	AM	AM
	Payload s	izes, bit	320	320
	Max data	rate, bps	64000	64000
	AMD PDU	J header, bit	16	16
MAC	MAC head	der, bit	4	4
	MAC mult	iplexing	2 logical chann	nel multiplexing
Layer 1	TrCH type	;	DCH	
1	TB sizes, bit		340	
	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	pe	Т	С
	CRC, bit		16	
	Max numb	per of bits/TTI after channel coding	4284	
	Max numb	per of bits/radio frame before rate	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	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 mu	Iltiplexing	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 TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.	

6.10.3.4.1.58.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1640 bits
	TFCI code word	16 bits
	Puncturing limit	0.64

6.10.3.4.1.59 Reserved for future use
6.10.3.4.1.60 Reserved for future use
6.10.3.4.1.61 Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.3.4.1.61.1 Uplink
6.10.3.4.1.61.1.1 Transport channel parameters

6.10.3.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	UM	
	Payload sizes, bit	320	
	Max data rate, bps	8000	
	UMD PDU header, bit	8	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	328 (alt 0, 328)	
	TFS TF0, bits	0x328 (alt 1x0) (note)	
	TF1, bits	1x328	
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1044	
	Max number of bits/radio frame before rate matching	261	
	RM attribute	135-175	
NOTE: In case	of using this alternative, CRC parity bits are to be attached any	time since number of TrBlks	

are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.222).

6.10.3.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See clause 6.10.3.4.1.23a.1.1.1.

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

6.10.3.4.1.61.1.1.4 TFCS

TFCS size	8 (alt. 12)							
TFCS	(8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=							
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),							
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)							
	(alt.							
(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0),								
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1),							
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0),							
	(TF1, TF0, TF1), (TF1, TF1), (TF1, TF2, TF1))							
Note: In case T	B size zero is configured for any transport channel the first TFC is required; it is optional otherwise.							

6.10.3.4.1.61.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips			
	Codes and time slots	SF8 x 1 code x 1 time slot			
	Max. Number of data bits/radio frame	452 bits			
	TFCI code word	16 bits			
	TPC 2 bits				
	Puncturing Limit	0.68 (alt. 0.64)			

6.10.3.4.1.61.2 Downlink

6.10.3.4.1.61.2.1 Transport channel parameters

6.10.3.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

Higher		RAB/Signalling RB	RAB		
layer RLC	Logical	channel type	DTCH		
	RLC mod	* '	UM		
		sizes, bit	320		
		a rate, bps	8000		
		U header, bit	8		
MAC	· · · · · · · · · · · · · · · · · · ·		0		
			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 t	ype	TC		
	CRC, bit		16		
	Max num	nber of bits/TTI after channel coding	1044		
	Max num	nber of bits/radio frame before rate	261		
	matching				
	RM attrib		135-175		
NOTE: In ca	ase of using	this alternative, CRC parity bits are to b	e attached any time since number of TrBlks are 1 even		

NOTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.222).

6.10.3.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1

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

See clause 6.10.3.4.1.2.2.1.1

6.10.3.4.1.61.2.1.4 TFCS

TFCS size	8				
TFCS	(8 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=				
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1), (TF0, TF1, TF1),				
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF0, TF1), (TF1, TF1, TF1)				
Note: In case TB	Note: In case TB size zero is configured for any transport channel the first TFC is required; it is optional otherwise.				

6.10.3.4.1.61.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

6.10.3.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

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

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.1.1 Uplink

6.10.3.4.2.1.1.1 Transport channel parameters

6.10.3.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

Higher Layer	RAB/Signalling RB		RAB	SRB#5
RLC	Logical channel type		DTCH	SHCCH
	RLC mode	e	AM	TM
	Payload s	izes, bit	320	168
	Max data	rate, bps	64000	16800
	AMD/TrD	PDU header, bit	16	0
MAC	MAC head	der, 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 Bear	User of Radio Bearer			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		5	5	5	5		
	MAC multiplexing		4 logical channel multiplexing					
Layer 1	TrCH type	TrCH type		USCH				
	TB sizes, bit				149			
	TFS	TFS TF0, bits		0x149				
		TF1, bits		1x1	49			
	TTI, ms			4	0			
	Coding type		CC 1/3					
	CRC, bit		16					
	Max number of bits	Max number of bits/TTI before rate		519				
	matching	matching						
	Max number of bits	Max number of bits/radio frame before		13	30			
	rate matching							
	RM attribute			190-	-210			

6.10.3.4.2.1.1.1.3 TFCS for USCH

TFCS size	20
TFCS	(64 kbps RAB, SHCCH, SRBs for DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0), (TF0,
	TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0), (TF0, TF0,
	TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (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 channel multiplexing						
Layer 1	TrCH type	RACH						
	TB sizes, bit	170						
	TFS TF0, bits	TF0, bits 1x170						

Higher	RAB/signalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	
layer	User of Radio Bearer	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	RRC	
	TTI, ms	10						
	Coding type		CC ½					
	CRC, bit	16						
	Max number of bits/TTI after channel coding	388						
	Max number of bits/radio frame before rate matching	388						

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 mul	tiplexing		
Layer	TrCH type				RACH			
1	TB sizes, bit	bit 170						
	TFS TF0, bits	TF0, bits 1x170						
	TTI, ms	TTI, ms 10						
	Coding type CC ½							
	CRC, bit	CRC, bit 16						
	Max number of 388							
	bits/TTI after							
	channel coding							
	Max number of				388			
	bits/radio frame							
	before rate							
	matching							

6.10.3.4.2.1.1.2 Physical channel parameters

6.10.3.4.2.1.1.2.1 Physical channel parameters for PUSCH

PUSCH	Midamble	512 chips
	Codes and time slots	
		SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1808 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.60 (alt. 0.56)

6.10.3.4.2.1.1.2.2 Physical channel parameters for PRACH

PRACH	Midamble	512 chips
	Codes and time slots	SF8 (alt. SF16) x 1 code x 1
		time slot
	Max. Number of data bits/radio frame	464 (alt. 232)
	Puncturing Limit	1 (alt. 0.56)

6.10.3.4.2.1.2 Downlink

6.10.3.4.2.1.2.1 Transport channel parameters

6.10.3.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher 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 typ	е	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		3400	3200	3200	3200	
	AMD/UMD PDU he	eader, bit	8	16	16	16	
MAC	MAC header, bit		5	5	5	5	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type		DSCH				
	TB sizes, bit	TB sizes, bit		149			
	TFS	TF0, bits	0x149				

	TF1, bits	1x149	
TTI, ms		40	
Coding type		CC 1/3	
CRC, bit		16	
Max number of bits/T matching	TI before rate	519	
Max number of bits/ra rate matching	adio frame before	130	
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, 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	Higher	RAB/sign	alling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6	
RLC mode	layer	User of R	adio Bearer	RRC	RRC	RRC	_	_	RRC	RRC	
Payload sizes, bit	RLC	Logical ch	nannel type	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH	
Max data rate, bps		RLC mod	е	UM	UM	AM	AM	AM	UM	TM	
MAC MAC header, bit MAC multiplexing MAC multiplexing TrCH type TrCH type TrS, bits TrS,		Payload s	sizes, bit	160		128	128	128	160	168	
header, bit		Max data	rate, bps	,	24000 (alt. 13600 or	,	,			33600 (alt. 16800)	
MAC multiplexing 7 logical channel multiplexing				8	8	16	16	16	8	0	
TrCH type	MAC	MAC hea	der, bit	3	27 or 43	27	27	27	3	3	
TB sizes, bit		MAC mul	tiplexing								
TFS TF0, bits 0x171 TF1, bits 1x171 TF2, bits 2x171 TF3, bits 3x171(alt. N/A) TF4, bits 4x171(alt. N/A) TII, ms 20 Coding type TC CRC, bit 16 Max number of bits/TTI after channel coding 2256 (alt. 1134) Max number of bits/radio frame before rate matching 1128 (alt. 567)	Layer 1	TrCH type	Э	FACH							
TF1, bits		TB sizes, bit		171							
TF2, bits 2x171 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 after channel coding Max number of bits/radio frame before rate matching		TFS	TF0, bits								
TF3, bits TF4, bits 3x171(alt. N/A) TTI, ms 20 Coding type TC CRC, bit 16 Max number of bits/TTI after channel coding Max number of bits/radio frame before rate matching			TF1, bits	1x171							
TF4, bits 4x171(alt. N/A) TII, ms Coding type TC CRC, bit Max number of bits/TTI after channel coding Max number of bits/radio frame before rate matching			TF2, bits	2x171							
TTI, ms Coding type TC CRC, bit Max number of bits/TTI after channel coding Max number of bits/radio frame before rate matching			TF3, bits	3x171(alt. N/A)							
Coding type CRC, bit Max number of bits/TTI after channel coding Max number of bits/radio frame before rate matching			TF4, bits								
Coding type CRC, bit Max number of bits/TTI after channel coding Max number of bits/radio frame before rate matching		TTI, ms					20				
Max number of bits/TTI after channel coding Max number of 1128 (alt. 567) bits/radio frame before rate matching		Coding ty	ре	TC							
bits/TTI after channel coding Max number of 1128 (alt. 567) bits/radio frame before rate matching		CRC, bit	-	16							
Max number of 1128 (alt. 567) bits/radio frame before rate matching		bits/TTI a		2256 (alt. 1134)							
		Max number of 1128 (alt. 567) bits/radio frame									
140 12. With house size and the payload size depond on doo of a tittle of a tittle.	NOTE:	•		RLC payload	size depend o	n use of U-RN	TI or C-RNTI.				

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6.10.3.4.2.1.2.1.4.2 FACH transport channel configuration with DTCH

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6
layer	User of Radio Bea	rer Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	RRC	RRC
RLC	Logical channel type	oe DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH
	RLC mode	AM	UM	UM	AM	AM	AM	UM	TM
	Payload sizes, bit	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/UMD/TrD PD header, bit	DU 16	8	8	16	16	16	8	0
MAC	MAC header, bit	27	3	27 or 43	27	27	27	3	3
	MAC multiplexing		-	8	logical chann	el multiplexing	.		
Layer 1	TrCH type				FA	CH			
	TB sizes, bit	171, 363							
	TFS TF0, bit	S	0x171						
	TF1, bit	S	1x171						
	TF2, bit	S	2x171						
	TF3, bit	S	1x363						
	TF4, bit	S			3x171 (alt N/A)			
	TF5, bit	S			4x171 (a				
	TF6, bit	S			2x363 (a	alt. N/A)			
	TTI, ms				2	-			
	Coding type				T				
	CRC, bit 16								
	Max number of 2286 (alt. 1149)								
	bits/TTI after chan	nel	1						
	coding		1143 (alt. 575)						
	Max number of				1143 (a	ıt. 5/5)			
	bits/radio frame before rate matchi	na							
NOTE:	MAC header size		oizo donos d c	n una of LL DAI	TI or C DNTI				

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
	Coding type	TC	CC 1/2
	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, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),
	(TF5, TF1, TF1), (TF6, TF1, TF1), (TF7, TF1, TF1), (TF8, TF1, TF1))

6.10.3.4.2.2.2.1.4 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH (with & without DTCH)

See clause 6.10.3.4.2.1.2.1.4.

6.10.3.4.2.2.2.1.5 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.5.

6.10.3.4.2.2.2.2 Physical channel parameters

6.10.3.4.2.2.2.2.1 Physical channel parameters for PDSCH

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6608 bits (alt. 6592 bits)
	TFCI code word	16 bits (alt. 32 bits)
	Puncturing Limit	0.48

6.10.3.4.2.2.2.2.2 Physical channel parameters for SCCPCH

See clause 6.10.3.4.2.1.2.2.2.

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

+ UL: 3.4/16.8 DL: 3.4/33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.3.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.3.2 Downlink

6.10.3.4.2.3.2.1 Transport channel parameters

6.10.3.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher	RAB/Signalling RB	RAB	SRB#5
Layer			
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	640	160
	Max data rate, bps	2048000	16000
	AMD/UMD PDU header, bit	16	8
MAC	MAC header, bit	1	1
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	657	169
	TFS TF0, bits	0x657	0x169
	TF1, bits	1x657	1x169
	TF2, bits	2x657	N/A
	TF3, bits	4x657	N/A
	TF4, bits	8x657	N/A
	TF5, bits	12x657	N/A
	TF6, bits	16x657	N/A
	TF7, bits	20x657	N/A
	TF8, bits	24x657	N/A
	TF9, bits	28x657	N/A
	TF10, bits	30x657 (alt. 32x657)	N/A
	TF11, bits	N/A (alt. 36x657)	N/A
	TF12, bits	N/A (alt. 40x657)	N/A
	TF13, bits	N/A (alt. 44x657)	N/A
	TF14, bits	N/A (alt. 48x657)	N/A
	TF15, bits	N/A (alt. 52x657)	N/A
	TF16, bits	N/A (alt. 56x657)	N/A
	TF17, bits	N/A (alt. 60x657)	N/A
	TF18, bits	N/A (alt. 64x657)	N/A
	TTI, ms	10 (alt. 20)	10
	Coding type	TC	CC ½
Ĭ	CRC, bit	16	16
	Max number of bits/TTI after channel coding	60624 (alt. 129330)	386
	Downlink: Max number of bits/radio frame	60624 (alt. 64665)	386
	before rate matching		
	RM attribute	135-175	230-250

6.10.3.4.2.3.2.1.2 Transport channel parameters for DL: 3.4 Kbps SRBs for DCCH mapped on DSCH See clause 6.10.3.4.2.1.2.1.2

6.10.3.4.2.3.2.1.3 TFCS for DSCH

TFCS size	41 (alt.76)
TFCS	(2048 kbps RAB, SHCCH, SRBs for DCCH)=
11 00	(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),
	(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)
	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))
	11 1/3, \ 11 10, \ 11 1, \ 11 1/3, \ 11 1/4, \ 11 1, \ 11 1/3, \ 11 10, \ 11 1, \ 11 1/3

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
	CRC, bit	16	16
	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.

6.10.3.4.3.1.1.1.5 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	RACH	
	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	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			SRB#0	SRB#5	SRB#6
layer			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	PDU header, bit	8	8	0
MAC	MAC hea	ader, bit		3	
IVIAC	MAC mu	Itiplexing	3 lo	gical channel multiplex	king
	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)		
- 9	TTI, ms		20		
	Coding ty		TC		
	CRC, bit		16		
		ber of bits/TTI after	2256 (alt. 1134)		
	channel of				
	Max number of bits/radio frame before rate matching		1128 (alt 567)		
	perore ra	ite 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	
	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, b	pps	12000 (alt. 8000)
	TrD PDU heade	r, bit	0
MAC	MAC header, bi	t	0
	MAC multiplexing	ng	N/A
Layer 1	TrCH type		PCH
	TB sizes, bit		240 (alt. 80)
	TFS	TF0, bts	0x240 (alt. 0x80)
		TF1, bits	1x240 (alt. 1x80)
		TF2, bits	N/A (alt.2x80)
	TTI, ms		20
	Coding type		CC 1/2
	CRC, bit		16
	Max number of matching	bits/TTI before rate	528 (alt. 400)
	Max number of rate matching	bits/radio frame before	264 (alt. 200)
	RM attribute		210-250

6.10.3.4.4.1.1.2 TFCS

TFCS size	2 (alt. 3)
TFCS	SRBs for PCCH = (TF0), (TF1) (alt. (TF0), (TF1), (TF2))

6.10.3.4.4.1.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
		(alt. SF16 x 1 code x 1 time
		slot)
	Max. Number of data bits/radio frame	480 bits (alt. 236 bits)
	TFCI code word	8 bits
	Puncturing limit	1

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

6.10.3.4.4.2.1 Transport channel parameters

6.10.3.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

Higher	RAB/signalling RB		RAB	
layer	User of Radio Bearer		Interactive/ Background RAB	
RLC	Logical channel type		DTCH	
	RLC mode		AM	
	Payload sizes	s, bit	320	
	Max data rate	e, bps	32000 (alt. 16000)	
	AMD PDU he	ader, bit	16	
MAC	MAC header,		27	
IVIAC	MAC multiple	xing	N/A	
Layer 1	TrCH type		FACH	
	TB sizes, bit		363	
		TF0, bits	0 x363	
	TFS	TF1, bits	1x363	
		TF2, bits	2x363 (alt. N/A)	
	TTI, ms		20	
	Coding type		TC	
	CRC, bit		16	
	Max number of bits/TTI before rate matching		2286 (alt. 1149)	
	Max number of bits/radio frame before rate		1143 (alt. 575)	
	matching			
	RM attribute		110-150	

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

Higher	RAB/signalling RB		SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of Radio 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	Payload sizes, bit		136 or 120 (note)	128	128	128	168
	Max data rat	e, 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	TrCH type		FACH					
	TB sizes, bit	TB sizes, bit		171				
		TF0, bits	0x171					
		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
		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 channel multiplexing		
Layer 1	TrCH type		FACH		
	TB sizes, bit		363		
	TFS	TF0, bits	0x363		
		TF1, bits	1x3	363	
		TF2, bits	2x363 (alt. N/A)	
	TTI, ms		2	0	
	Coding type		TC		
	CRC, bit		16		
	Max number of bits/TTI before rate		2286 (alt. 1149)		
I	matching				
		ber of bits/radio frame before	1143 (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

6.10.3.4.4.3.1.1 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

6.10.3.4.4.3.1.2 Transport channel parameters of SRB for PCCH

Transport channel parameters

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.

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

Note: alt. THOS applies when alts for 32 kbps RAB, SRB for PCCH, and SRBs for CCCH/ DCCH/ BCCH are all configured.

6.10.3.4.4.3.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 8 codes x 1 time
		slot (alt. SF16 x 2 codes x
		1 time slot)
	Max. Number of data bits/radio	1936 bits (alt. 472 bits)
	frame	
	TFCI code word	16 bits
	Puncturing limit 0.52 (alt. 0.56)	
Note: Alt. applies when alts for 32 kbps RAB and SRBs for CCCH/ DCCH/		

BCCH are both configured.

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

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 app	olies when alts for SRB for PCCH and SRBs for CCCH/ DCCH/ BCCH are both configured.

6.10.3.4.4.3a.2 Physical channel parameters

S-CCPCH	Midamble	512 chips		
	Codes and time slots	SF16 x 5 codes x 1 time slot		
		(alt. SF16 x 2 codes x 1 time		
		slot)		
	Max. Number of data bits/radio frame	1204 bits (alt. 480 bits)		
	TFCI code word	16 bits (alt. 8 bits)		
	Puncturing limit	0.84 (alt. 0.84)		
Note: Alt. applies when alt for SRBs for CCCH/ DCCH/ BCCH is configured.				

6.10.3.4.4.4 RB for CTCH + SRB for CCCH + SRB for BCCH

6.10.3.4.4.4.1 Transport channel parameters

6.10.3.4.4.4.1.1 Transport channel parameters of RB for CTCH

Higher layer	RAB/signallin	a RB	N/A
r lighter layer	User of Radio		BMC
RLC	Logical channel type		CTCH
	RLC mode		UM
	Payload sizes	s, bit	152
	Max data rate		15200
	UMD PDU he	ader, bit	8
MAC	MAC header,	bit	3
	MAC multiple	xing	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
		of bits/TTI before rate	1098
	matching		
		of bits/radio frame	549
	before rate m	atching	
	RM attribute		200-240

6.10.3.4.4.4.1.2 Transport channel parameters of SRB for CCCH and SRB for BCCH

Higher layer	RAB/signalling RB		SRB#0	SRB#5	
	User of Radio 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 PDU	header, bit	8	0	
MAC	MAC header, bit		3	3	
IVIAC	MAC multiplexing		2 logical channel multiplexing		
Layer 1	TrCH type		FACH		
	TB sizes, bit		171		
	Т	F0, bits	0x171		
	TFS	F1, bits	1x171		
	Т	F2, bits	2x171		
	TTI, ms Coding type CRC, bit Max number of bits/TTI before rate matching		20		
			TC		
			16		
			1134		

Higher layer	RAB/signalling RB SRB#0 SRE		SRB#5	
	User of Radio Bearer	RRC RRC		
	Max number of bits/radio frame before rate matching	567		
	RM attribute	200-240		

6.10.3.4.4.4.1.3 TFCS

TFCS size	4
TFCS	(RB for CTCH, SRBs for CCCH/BCCH) =
	(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF1, TF0)

6.10.3.4.4.4.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.80

6.10.3.4.5 Combinations on PRACH

6.10.3.4.5.1 SRB for CCCH + SRB for DCCH

6.10.3.4.5.1.1 Transport channel parameters

6.10.3.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

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

6.10.3.4.5.1.1.2 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 chann	el multiplexing			
Layer 1	TrCH type	RACH						
	TB sizes, bit	sizes, bit 170						
	TFS TF0, bits	, 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	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							

6.10.3.4.5.3.2 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 follow:

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)

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 cha	annel type	DTCH		
	RLC mode)	AM		
	Payload si	zes, bit	128		
	Max data r	ate, 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 typ	e	CC 1/3		
	CRC, bit		16		
	Max numb	er 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		

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.

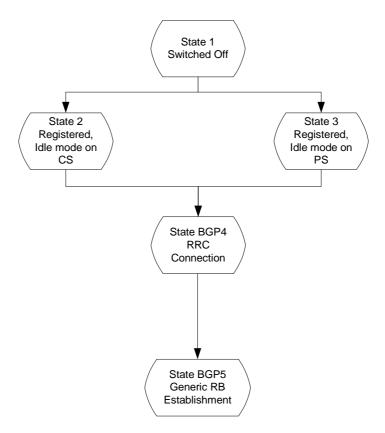


Figure 7.1.1: UE Test States for Basic Generic Procedures

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	\leftarrow	RRC CONNECTION SETUP (CCCH)	RRC
5	\rightarrow	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC

7.1.2.4 Specific message contents

7.1.2.4.1 PAGING TYPE 1

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

	Value/Remark					
Message Type	PAGING TYPE 1					
UE Information elem	ents					
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	omit					
NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the Paging cause, CN domain identity and UE Identity are selected in accordance with the requirements of the following procedure.						

7.1.2.4.2 RRC CONNECTION REQUEST

This message is sent by the UE to the SS using the TM-RLC SAP. It is sent on the CCCH Logical channel.

Information Element			Value/Remark		
Message Type			RRC CONNECTION REQUEST		
UE information element	s				
Initial UE identity	TMSI and LAI	TMSI (GSM-MAP)	As specified during Registration procedure		
		LAI (GSM-MAP)	As specified by default 1 cell environment		
Initial UE capability	Maximum numbe	er of AM entities	As declared in UE ICS		
Establishment cause			As appropriate		
Protocol error indicator			FALSE		
>UE Specific Behaviour Information 1 idle			This IE will not be checked by default, but in specific test case		
			·		
Measurement information elements					
Measured results on RAC	CH	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							
Use default							
Frequency info			As specified by default 1 cell environment				
Uplink radio resources							
Use default	Use default						
Downlink radio resources							
Use default							
NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the UE Identity is selected in accordance with the requirements of the following procedure.							

7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent by the UE to the SS using AM-RLC SAP. The message is sent on the DCCH Logical channel.

Message Type UE Information Elements Hyper frame number UE radio access capability PDCP capability PDCP capability RLC capability RLC capability Transport channel capability Max no of bits received Maximum number of TFC in the TFCS Max no of received transport blocks Max no of bits transmitted Max convolutionally coded bits freceived Maximum number of TFC in the TFCS Max no of bits transmitted Max no of transmitted Max no of bits transmitted Max	Information Element			Value/Remark
Victorial contents Victori	Message Type			RRC CONNECTION SETUP
Hyper frame number UE radio access capability Conformance test compliance PDCP capability PDCP capability PDCP capability Support for lossless SRNS Not checked Supported algorithm types Not checked				COMPLETE
UE radio access capability PDCP capability PDCP capability Support for lossless SRNS relocation RLC capability Fransport channel capability Max no of bits received Max convolutionally coded bits received Max turbo coded bits received Max turbo coded bits received Max no of received transport channels Max no of received transport diaminum number of simultaneous transport channels Max no of received transport blocks Maximum number of TFC in the FFCS Maximum number of the FFCS Maximum number of the following t				
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relocation Supported algorithm types RLC capability Total RLC AM buffer size Maximum number of AM entities Transport channel capability Max no of bits received Max convolutionally coded bits received Maximum number of AM entities Max turbo coded bits received Max turbo coded bits received Max maximum number of simultaneous transport channels Max no of received transport blocks Maximum number of TFC in the TFCS Maximum number of TFC in the TFCS Maximum number of TFC in the TFCS Maximum number of TFC in the AMAX on of bits transmitted Max no of bits transmitted Max no of bits transmitted Max no of bits transmitted Max convolutionally coded bits received Max turbo coded bits received Max turbo coded bits received Max turbo coded bits received Max no fits maximum number of the TFCS Maximum number of TFC in Maximum number of Simultaneous CCTrCH Max no DPCHiPDSCH codes Max no brysical channel bits received Max no DPCHiPDSCH codes Mox to checked Support of PSSCH Maximum number of DPDCH Max no of S-CCPCH RL Uplink Maximum number of DPDCH bits transmitted per 10 ms	UE radio access capability		compliance	
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Support for turbo encoding Not checked RF capability UE power class As declared for UE Tx/Rx frequency separation Not checked Physical channel capability Maximum number of simultaneous CCTrCH Max no DPCH/PDSCH codes Max no physical channel bits received Support for SF 512 Support for SF 512 Not checked Support of PDSCH Simultaneous reception of SCCPCH and DPCH Max no of S-CCPCH RL Not checked Uplink Maximum number of DPDCH bits transmitted per 10 ms Not checked				Not checked
RF capability UE power class Tx/Rx frequency separation Physical channel capability Maximum number of simultaneous CCTrCH Max no DPCH/PDSCH codes Max no physical channel bits received Support for SF 512 Support of PDSCH Simultaneous reception of SCCPCH and DPCH Max no of S-CCPCH RL Max no of S-CCPCH RL Mot checked Volume Not checked				Not checked
Tx/Rx frequency separation Not checked Physical channel capability Maximum number of simultaneous CCTrCH Max no DPCH/PDSCH codes Not checked Max no physical channel bits received Support for SF 512 Not checked Support of PDSCH Not checked Simultaneous reception of SCCPCH and DPCH Max no of S-CCPCH RL Not checked Uplink Maximum number of DPDCH Not checked Max no of S-CCPCH RL Not checked Uplink Maximum number of DPDCH Not checked				
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Support of PDSCH Not checked Simultaneous reception of SCCPCH and DPCH Max no of S-CCPCH RL Not checked Uplink Maximum number of DPDCH bits transmitted per 10 ms				
SCCPCH and DPCH Max no of S-CCPCH RL Not checked Uplink Maximum number of DPDCH bits transmitted per 10 ms				
Uplink Maximum number of DPDCH Not checked bits transmitted per 10 ms			SCCPCH and DPCH	
Maximum number of DPDCH Not checked bits transmitted per 10 ms				Not checked
bits transmitted per 10 ms				
Support of PCPCH 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 capabilit	ty		Not checked

7.1.3 Radio Bearer Setup Procedure

7.1.3.1 Initial conditions

The procedure specified in clause 7.1.2 will be run. This procedure starts from the successful completion of clause 7.1.2.

7.1.3.2 Definition of system information messages

The default system information messages are used.

7.1.3.3 Procedure

- The SS sends a RADIO BEARER SETUP message to the UE on the DCCH established by the RRC Connection Establishment procedure.
- The SS receives a RADIO BEARER SETUP COMPLETE message from the UE in RLC Acknowledged mode on the DCCH.

On receiption of the RADIO BEARER SETUP COMPLETE the procedure is complete.

Step	Direction	Message	Comments
	UE SS		
1	←	RADIO BEARER SETUP (DCCH)	RRC
2	\rightarrow	RADIO BEARER SETUP COMPLETE (DCCH)	RRC

7.1.3.4 Specific message contents

7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

Information Element		Value/Remark
Message Type		RADIO BEARER SETUP
UE Information Elements		
CN Information Elements		
RB Information Elements		
RAB information for setup	Default parameters for 12.2 kbps speed bearer according to TS 34.108 clause 6 6.10.3.4.1.4 for TDD	

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

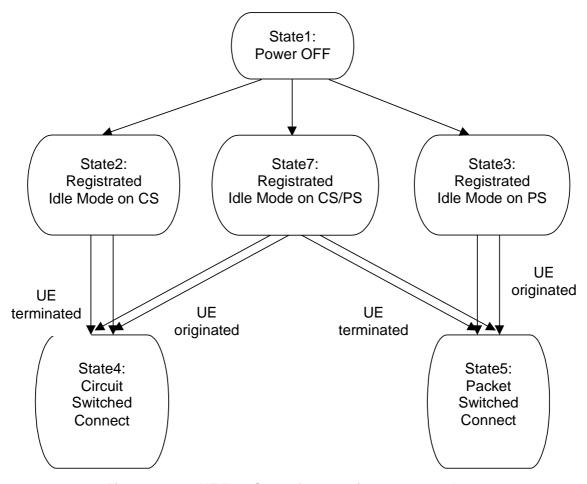


Figure 7.2.1.1: UE Test States for Generic setup procedures

Table 7.2.1.1: The UE states

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.

		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 3GPP TS 24.008 [32] clause 1.7.2.2. Table 7.2.2 shows the appropriate clause number for each combination of these two modes of operation.

Table 7.2.2: Registration Procedures for UEs Supporting Packet Services

Network Mode		NMO I	NMO II
UE Mode	PS/CS	7.2.2.3	7.2.2.4
IVIOGE	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

The default system information messages are used.

7.2.2.3.3 Procedure UE establish PS registration immediately after the UE has been switched on

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	ATTACH REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	<	ATTACH ACCEPT	GMM
11	>	ATTACH COMPLETE	GMM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.3.3a Procedure; UE establish PS registration later the user decides to use the PS services

CS registration has been successfully completed and RRC connection is released, cee clause 7.2.2.1. Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction		Message	Comments
-	UE	SS		
1	<		SYSTEM INFORMATION (BCCH)	NW Broadcast
1a				The UE initiates an attach by
				MMI or by AT command.
2	>		RRC CONNECTION REQUEST (CCCH)	RRC
3	<	-	RRC CONNECTION SETUP (CCCH)	RRC
4	>	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	>	ATTACH REQUEST	GMM
6	<	-	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	-	SECURITY MODE COMMAND	RRC
9	>	>	SECURITY MODE COMPLETE	RRC
10	<	-	ATTACH ACCEPT	GMM
11	>	>	ATTACH COMPLETE	GMM
12	<	-	RRC CONNECTION RELEASE	RRC
13	>	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.3.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer3 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	Direct	tion	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 RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.2.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

Contents of System information block type 1: RRC

Information Element	Value/remark
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00
- CN domain specific DRX cycle length coefficient	7
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00(T3212 is set to infinity) 01
- CN domain specific DRX cycle length coefficient	7
- UE Timers and constants in connected mode	
- T305	Infinity

7.3.2.3 Procedure

For UE supporting CS

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	PAGING TYPE1 (PCCH)	Paging (CS domain, TMSI)
3	>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	RRC CONNECTION SETUP (CCCH)	RRC
5	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>	PAGING RESPONSE	RR
7	<	AUTHENTICATION REQUEST	MM
8	>	AUTHENTICATION RESPONSE	MM
9	<	SECURITY MODE COMMAND	RRC
10	>	SECURITY MODE COMPLETE	RRC
11	<	ACTIVATE RB TEST MODE	TC
12	>	ACTIVATE RB TEST MODE COMPLETE	TC
13	<	RADIO BEARER SETUP	RRC (RAB SETUP)
14	>	RADIO BEARER SETUP COMPLETE	RRC
15	<	CLOSE UE TEST LOOP (DCCH)	TC (UE test loop mode set up)
16	>	CLOSE UE TEST LOOP COMPLETE	TC (confirms that loopback
			entities for the radio bearer(s)
			have been created and loop
			back is activated)
17	<	OPEN UE TEST LOOP	TC
18	>	OPEN UE TEST LOOP COMPLETE	TC
19	<	RRC CONNECTION RELEASE	RRC
20	>	RRC CONNECTION RELEASE COMPLETE	RRC

For UE supporting PS only

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	PAGING TYPE1 (PCCH)	Paging (PS domain, P-TMSI)
3	>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	RRC CONNECTION SETUP (CCCH)	RRC
5	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>	SERVICE REQUEST	GMM
7	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
8	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
9	<	SECURITY MODE COMMAND	RRC
10	>	SECURITY MODE COMPLETE	RRC
11	<	ACTIVATE RB TEST MODE	TC
12	>	ACTIVATE RB TEST MODE COMPLETE	TC
13	<	RADIO BEARER SETUP	RRC (RAB SETUP)
14	>	RADIO BEARER SETUP COMPLETE	RRC
15	<	CLOSE UE TEST LOOP (DCCH)	TC (UE test loop mode set up)
16	>	CLOSE UE TEST LOOP COMPLETE	TC (confirms that loopback
			entities for the radio bearer(s)
			have been created and loop
			back is activated)
17	<	OPEN UE TEST LOOP	TC
18	>	OPEN UE TEST LOOP COMPLETE	TC
19	<	RRC CONNECTION RELEASE	RRC
20	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.3.2.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

7.3.2.4.1 ATTCH ACCEPT

This message is sent from the SS to the UE, used for the UE supporting PS only.

Contents of Attach Accept message: GMM

Information Element	Value/remark	
Periodic RA update timer	E0 (timer is deactivated)	

7.3.2.4.2 Reference measurement channels

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

7.3.2.4.3 UE test loop mode

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

UE test loop mode 1 without DCCH dummy transmission

Default. See clause 9.2.

UE test loop mode 1 with DCCH dummy transmission

Contents of CLOSE UE TEST LOOP: TC

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

UE test loop mode 2 without DCCH dummy transmission

Contents of CLOSE UE TEST LOOP: TC

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

7.3.2.4.4 Compressed mode

[T.B.D.]

7.3.2.4.5 Transmit diversity mode

[T.B.D.]

7.3.3 Test procedure for Rx Spurious Emission

7.3.3.1 Initial conditions

System Simulator

- 1cell, default parameters.

User Equipment

The UE shall be operated under RF test conditions.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.3.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

Contents of System information block type 1: RRC

Information Element	Value/remark
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00
- CN domain specific DRX cycle length coefficient	7
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00(T3212 is set to infinity) 01
- CN domain specific DRX cycle length coefficient	7
- UE Timers and constants in connected mode	
- T305	Infinity

7.3.3.3 Procedure

For UE supporting CS

Step	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_FACH"
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	<		ACTIVATE RB TEST MODE	TC
12		·>	ACTIVATE RB TEST MODE COMPLETE	TC
13	<		RADIO BEARER SETUP	RRC
				- RAB SETUP using Reference
				Radio Bearer Configuration
				- RRC state indicator is set to
				"CELL_FACH"
14		·>	RADIO BEARER SETUP COMPLETE	RRC
15	<		RRC CONNECTION RELEASE	RRC
16	>		RRC CONNECTION RELEASE COMPLETE	RRC

7.3.3.4 Specific message contents

The default message contents specified in clause 9.2 are used with the following exceptions.

Contents of RADIO BEARER SETUP message: RRC

Information Element	Value/remark	
New C-RNTI	'1010 1010 1010 1010'	
RRC State indicator	CELL_FACH	

Contents of Attach Accept message: GMM

Information Element	Value/remark	
Periodic RA update timer	E0 (timer is deactivated)	

7.3.4 Test procedure for Handover

7.3.4.1 Initial conditions

System Simulator

- Intra-frequency hard handover:
 - 2 cells, default parameters according to Cell 1 and Cell 2 in clause 6.1.4.
- Inter-frequency hard handover:
 - 2 cells, default parameters according to Cell 1 and Cell 4 in clause 6.1.4.
- Inter-system handover UTRAN FDD to GSM:
 - 2 cells, default parameters according to Cell 1 and Cell 9 in clause 6.1.4.

User Equipment

The UE shall be initially operated under the normal RF test conditions if not otherwise stated in the initial conditions for the actual test case.

The Test-USIM shall be inserted.

The UE has a valid TMSI (CS) after the execution of the procedure described in 7.2.2.1

The UE has a valid P-TMSI (PS) after the execution of the procedure described in 7.2.2.2

7.3.4.2 Definition of system information messages

The default system information messages specified in clause 6.1 are used with the following exceptions.

Contents of System information block type 1: RRC

Information Element	Value/remark
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00
- CN domain specific DRX cycle length coefficient	7
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00(T3212 is set to infinity) 01
- CN domain specific DRX cycle length coefficient	7
- UE Timers and constants in connected mode	
- T305	Infinity

For the intra-frequency hard handover 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 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 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	<	:	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 Measurement Performance Requirement

FFS

7.4 Common generic procedures for AS testing

7.4.1 UE RRC Test States for common procedures

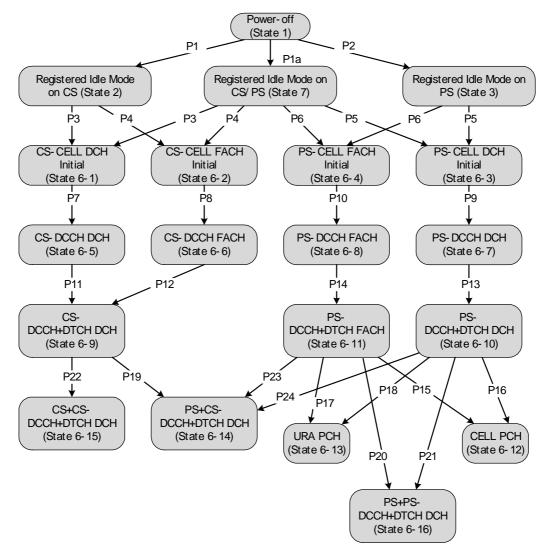


Figure 7.4.1.1: UE RRC test initial states and common procedures

For UE to set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.4.1.1, the operating states for various protocols in the UE are given in table 7.4.1.1.

It is noted that figure 7.4.1.1 should not be construed as a formal state transition diagram, in any manner. The intention here is to define the starting state of UE following the execution of the procedures indicated above.

Table 7.4.1.1: The UE states

		RRC	CC	MM	SM	GMM
State 1	Power OFF		Null	Detached	Inactive	Detached
State 2	Registered Idle Mode on CS	Idle	Null	Idle	Inactive	Detached
State 3	Registered Idle Mode on PS	Idle	Null	Detached	Inactive	Idle
State 7	Registered Idle Mode on CS/PS	Idle	Null	Idle	Inactive	Idle
State BGP6-1	CS-CELL_DCH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-2	CS-CELL_FACH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-3	PS-CELL_DCH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-4	PS-CELL_FACH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-5	CS-DCCH_DCH	Connected (CELL_DCH)	Null	As previous	Inactive	As previous
State BGP6-6	CS-DCCH_FACH	Connected (CELL_FACH)	Null	As previous	Inactive	As previous
State BGP6-7	PS-DCCH_DCH	Connected (CELL_DCH)	Null	As previous	Active pending	As previous
State BGP6-8	PS-DCCH_FACH	Connected (CELL_FACH)	Null	As previous	Active pending	As previous
State BGP6-9	CS-DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Inactive	As previous
State BGP6-10	PS-DCCH+DTCH_DCH	Connected (CELL_DCH)	Null	As previous	Active	As previous
State BGP6-11	PS-DCCH+DTCH_FACH	Connected (CELL_FACH)	Null	As previous	Active	As previous
State BGP6-12	CELL_PCH	Connected (CELL_PCH)	Null	As previous	Inactive	As previous
State BGP6-13	URA_PCH	Connected (URA_PCH)	Null	As previous	Inactive	As previous
State BGP6-14	PS+CS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Active	As previous
State BGP6-15	CS+CS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Inactive	As previous
State BGP6-16	PS+PS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Null	As previous	Active	As previous

State 1, state 2, state 3, P1, P2 and P1a are described in TS34.108 clause 7.2. States 6-X (for X=1 to 16) are described below.

7.4.2 Generic Setup Procedure for RRC test cases

7.4.2.1 RRC connection establishment procedure for circuit-switched calls (procedure P3 and P4)

7.4.2.1.1 Mobile terminating call

7.4.2.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters

User Equipment:

- The UE shall be operated under normal test conditions as specified in TS 34.108.
- The Test USIM shall be inserted.

7.4.2.1.1.2 Definition of system information messages

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

7.4.2.1.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 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.

7.4.2.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	>	RRC CONNECTION REQUEST (CCCH)	RRC
2	<	RRC CONNECTION SETUP (CCCH)	RRC
3	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
4	>	SERVICE REQUEST	GMM

7.4.2.2.2.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P6, all specific message contents with the exception of step 2 shall be referred to clause 9 of TS 34.108. For step 2, the message of the same type titled "Transition to CELL_FACH" in TS 34.108 clause 9 is used.

7.4.2.3 NAS call set up procedure for circuit switched calls (procedure P7 and P8)

7.4.2.3.1 Mobile terminating call

7.4.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

7.4.2.3.1.2 Definition of system information messages

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

7.4.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	AUTHENTICATION REQUEST	MM
2	>	AUTHENTICATION RESPONSE	MM
3	<	SECURITY MODE COMMAND	RRC
4	>	SECURITY MODE COMPLETE	RRC
5	<	SET UP	CC
6	>	CALL CONFIRMED	lcc

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	Directio	n Message	Comments
	UE S	3	
1	<	RADIO BEARER SETUP	RRC RAB SETUP
2	>	RADIO BEARER SETUP COMPLETE	RRC
3	>	ALERTING	CC (This message is optional)
4	>	CONNECT	CC
5	<	CONNECT ACKNOWLEDGE	CC

7.4.2.5.1.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9 of TS 34.108) for the message in step 1.

7.4.2.5.2 Mobile originating calls

7.4.2.5.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

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

7.4.2.5.2.2 Definition of system information messages

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

7.4.2.5.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	RADIO BEARER SETUP	RRC RAB SETUP
2	>	RADIO BEARER SETUP COMPLETE	RRC
3	<		CC
4	<	CONNECT	CC
5	>	CONNECT ACKOWLEDGE	CC

7.4.2.5.2.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9 of TS 34.108) for the message in step 1.

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

7.4.2.6.1 Mobile terminating session

7.4.2.6.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

7.4.2.6.1.2 Definition of system information messages

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

7.4.2.6.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<	<	RADIO BEARER SETUP	RRC RAB SETUP
2	>		RADIO BEARER SETUP COMPLETE	RRC
3			ACTIVATE PDP CONTEXT ACCEPT	SM

7.4.2.6.1.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P13, use the message titled "Packet to CELL_DCH from CELL_DCH in PS". To execute procedure 14, use the message titled "Packet to CELL_FACH from CELL_FACH in PS".

7.4.2.6.2 Mobile originating sessions

7.4.2.6.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-7 or state 6-8.
- The Test USIM shall be inserted.

7.4.2.6.2.2 Definition of system information messages

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

7.4.2.6.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

St	tep	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 14, use the message titled "Packet to CELL_FACH from CELL_FACH in PS".

7.4.2.7 Procedure for transitions to CELL_PCH or URA_PCH state (procedure P15, P16, P17 and P18)

7.4.2.7.1 Transition to CELL_PCH (procedure P15 and P16)

7.4.2.7.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

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

7.4.2.7.1.2 Definition of system information messages

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

7.4.2.7.1.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	PHYSICAL CHANNEL RECONFIGURATION	RRC
2	>	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	RRC

7.4.2.7.1.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

Information Element	Value/remark
Message Type	
RRC State Indicator	CELL_PCH

7.4.2.7.2 Transition to URA_PCH (procedure P17 and P18)

7.4.2.7.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

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

7.4.2.7.2.2 Definition of system information messages

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

7.4.2.7.2.3 Procedure

The Call Set-up procedure shall be performed under ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		PHYSICAL CHANNEL RECONFIGURATION	RRC
2	>		PHYSICAL CHANNEL RECONFIGURATION COMPLETE	RRC

7.4.2.7.2.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

Information Element	Value/remark
Message Type	
RRC State Indicator	URA_PCH

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

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

7.4.2.8.1.1 Mobile terminating session

7.4.2.8.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-9.
- The Test USIM shall be inserted.

7.4.2.8.1.1.2 Definition of system information messages

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

7.4.2.8.1.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<	<	PAGING TYPE2 (DCCH)	Paging
2	-	->	SERVICE REQUEST	GMM
3	<	<	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	SM

7.4.2.8.2.2.4 Specific message contents

FFS

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

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

7.4.2.9.1.1 Mobile terminating call

7.4.2.9.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

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

7.4.2.9.1.1.2 Definition of system information messages

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

7.4.2.9.1.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

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

7.4.2.9.1.1.4 Specific message contents

FFS

7.4.2.9.1.2 Mobile originating calls

7.4.2.9.1.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

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

7.4.2.9.1.2.2 Definition of system information messages

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

7.4.2.9.1.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

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

7.4.2.9.1.2.4 Specific message contents

FFS

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

7.4.2.9.2.1 Mobile terminating call

7.4.2.9.2.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall have registered in CS/PS.
- The UE shall be in state 6-10 or state 6-11.
- The Test USIM shall be inserted.

7.4.2.9.2.1.2 Definition of system information messages

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

7.4.2.9.2.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

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

7.4.2.9.2.1.4 Specific message contents

FFS

7.4.2.9.2.2 Mobile originating calls

7.4.2.9.2.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

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

7.4.2.9.2.2.2 Definition of system information messages

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

7.4.2.9.2.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 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	lcc

7.4.2.9.2.2.4 Specific message contents

FFS

8 Test USIM Parameters

8.1 Introduction

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

8.1.1 Definitions

"Test USIM card":

A USIM card supporting the test algorithm for authentication, programmed with the parameters defined in this clause. The electrical, mechanical and environmental requirements of the test USIM card are specified in TS 31.101 and TS 31.102.

"Test USIM":

Either a test USIM card or the USIM simulator programmed with the parameters defined in this clause.

8.1.2 Definition of the test algorithm for authentication

In order to be able to easily test the UMTS authentication and key agreement procedure as specified in TS 33.102 [24] and TS 33.105 [26] along the whole system, the availability of a test algorithm for generation of authentication vector based on quintets is needed (in GSM triplets was used). Additionally, calculation of the parameters for resynchronisation requests is needed. The definition of the test algorithm are the functions f1, f2, f3, f4, f5 and the corresponding functions for re-synchronization are $f1^*$ and $f5^*$.

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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.

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The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS. The test algorithm may also, for test purposes, be implemented in AUC.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

8.1.2.1 Authentication and key derivation in the test USIM and SS

The following steps describe sequence of operations for the functions f1, f2, f3, f4 and f5 to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES, CK, IK, 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 $\mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}[\text{bits } 0,1,\dots46,47] = \mathbf{AUTN}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47]$ 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]
```

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

Step 5:

The test USIM calculates the re-synchronisation parameter AUTS:

AUTS[bits 0,1,..110,111] = $\mathbf{SQN_{MS}} \oplus \mathbf{AK}$ [bits 0,1,...46,47] || $\mathbf{MAC-S}$ [bits 0,1,...62, 63]

Where $\mathbf{SQN_{MS}} \oplus \mathbf{AK}[\text{bits } 0,1,\dots46,47] = \mathbf{SQN_{MS}}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47]$

8.1.2.3 Using the authentication test algorithm for UE conformance testing

8.1.2.3.1 Authentication accept case

The authentication accept case is illustrated in figure 8.1.2.3.1 and 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the AMF_{RESYNCH} value.

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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.

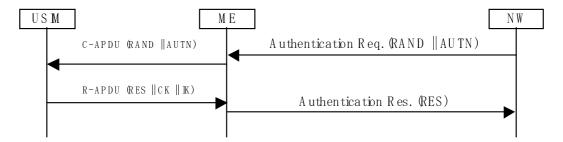


Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)

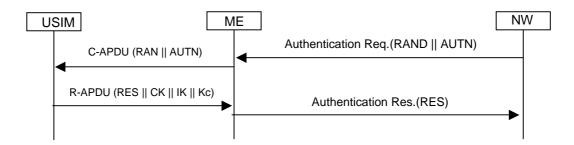


Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)

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").

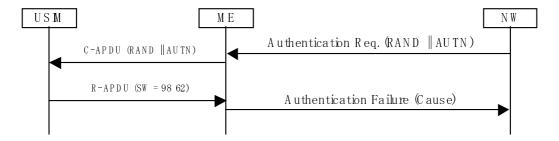


Figure 8.1.2.3.2: MAC failure cases

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.

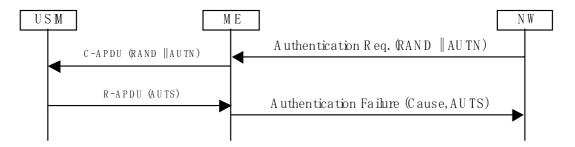


Figure 8.1.2.3.3: SQN failure case

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_{PL} (Preferred Languages)

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

8.3.1.4 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

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

8.3.2.1 EF_{LI} (Language Indication)

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

8.3.2.2 EF_{IMSI} (IMSI)

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

File size: 9 bytes

Default values: Byte 1 (DEC): 8

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

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

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

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

8.3.2.3 EF_{Keys} (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_{FCC} (Emergency Call Codes)

The programming of this EF is a test house option.

8.3.2.22 EF_{CBMIR} (Cell Broadcast Message Identifier Range selection)

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

8.3.2.23 EF_{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_{FST} (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_{SUME} (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

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 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.

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
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-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	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
RRC State indicator	CELL_FACH
UTRAN DRX cycle length coefficient	Not Present
RLC re-establish indicator (RB2, RB3 and RB4)	FALSE
RLC re-establish indicator (RB5 and upwards)	FALSE
CN information info	Not Present
URA identity	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 for all	Not Present
transport channels	Not Procent
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list CHOICE Mode	Not Present FDD
- CPCH set ID	Not Present
- Added or Reconfigured TrCH	Not Present
information for DRAC list	Not Flesent
DL Transport channel information common for all	Not Present
transport channels	Not i resent
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	Not Present
Frequency info	Not Present
Maximum allowed UL TX power	Not Present
CHOICE channel requirement	Not Present
CHOICE mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	Not Present
Downlink information per radio link list	Not Present

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- 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
- 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
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	Not checked
Measured results on RACH	Not checked

Contents of MEASUREMENT CONTROL message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an unused integer between 0 to 3
Integrity check info	
- 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	OND
	OdB
- Reference time difference to cell	Not Present
- Read SFN number - CHOICE mode	FALSE FDD
- Primary CPICH info	FDD
- Primary Scrambling code	Different from the Default setting in TS34.108 clause 6.1
	(FDD)
- Primary CPICH Tx power	Not Present
- TX Diversity indicator - Cells for measurement	FALSE Not present
- Intra-frequency measurement quantity	Not Present
- Intra-frequency reporting quantity	Not i resent
- Reporting quantities for active set cells	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell Identity reporting indicator	TRUE
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
 Reporting quantities for monitored set cells 	
 Cell synchronisation information reporting 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	
- 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
- RRC Message sequence number	significant bit of the MAC-I. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	See the test content

Contents of MEASUREMENT REPORT message: AM

Information Element	Value/remark
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

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
Message Type	A1, A2, A3,	
DDO topped the identifier	A4, A5, A6	Ashitassiha salasta sa istassa hataasa O sa d O
RRC transaction identifier 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 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 Not Present
New U-RNTI New C-RNTI	A1, A2, A3,	Not Present
New C-IXIVII	A1, A2, A3, A4	Not i lesent
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3,	Not Present
	A4, A5, A6	
RRC State indicator	A1, A2, A3,	CELL_DCH
PPC State indicator	A4 A5, A6	CELL_FACH
RRC State indicator UTRAN DRX cycle length coefficient	A5, A6 A1, A2, A3,	Not Present
OTRAN DRA cycle length coefficient	A1, A2, A3, A4, A5, A6	Not Fresent
CN information info	714,710,710	Not Present
URA identity		Not Present
Downlink counter synchronisation info		Not Present
Frequency info	A1, A2, A3,	
	A4, A5	
- UARFCN uplink (Nu)		Reference to clause 5.1 Test frequencies
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies
Frequency info	A6	Not Present
Maximum allowed UL TX power	A.F. A.C.	33dBm
CHOICE channel requirement CHOICE channel requirement	A5, A6 A1, A2, A3,	Not Present Uplink DPCH info
GIOIOL CHAITHEI TEGUITETHETIL	A1, A2, A3,	Opinik De Gri inio
- Uplink DPCH power control info	, , ,	
- DPCCH power offset		-80dB (i.e. ASN.1 IE value of -40)
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
- Scrambling code type		Long
- Scrambling code number - Number of DPDCH		0 (0 to 16777215)
- Number of DPDCH - spreading factor		Not Present(1) Reference to TS34.108 clause 6.10
- Spreading factor		Parameter Set
- TFCI existence		Reference to TS34.108 clause 6.10
5. 555		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 Made	A4 A0 A0	Parameter Set
CHOICE Mode	A1, A2, A3, A4, A5, A6	FDD
- Downlink PDSCH information	A4, 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		O (circula)
- DPC mode - CHOICE mode		0 (single) FDD
- CHOICE mode - Power offset P _{Pilot-DPDCH}		0
- FUWEI UIISEL FPIIot-DPDCH	<u> </u>	U

Information Element	Condition	Value/remark
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10
		Parameter Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10
		Parameter Set
- TFCI existence		Reference to TS34.108 clause 6.10
		Parameter Set
- CHOICE SF		Reference to TS34.108 clause 6.10
		Parameter Set
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value		Not Present
Downlink information common for all radio links	A4	
- Downlink DPCH info common for all RL		
- Timing indicator		Initialise
- CFN-targetSFN frame offset		Not Present
 Downlink DPCH power control information 		
- DPC mode	1	0 (single)
- CHOICE mode	1	FDD
- Power offset P _{Pilot-DPDCH}	1	0
 DL rate matching restriction information 	1	Not Present
- Spreading factor		Reference to TS34.108 clause 6.10
		Parameter Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10
		Parameter Set
- TFCI existence		Reference to TS34.108 clause 6.10
		Parameter Set
- CHOICE SF		Reference to TS34.108 clause 6.10
		Parameter Set
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step of
		512
Downlink information common for all radio links	A5, A6	Not Present
Downlink information for each radio links	A1, A2,A3	
- Choice mode		FDD
- Primary CPICH info		5 4 1
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
PROOF W ONE POLICE		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL	1	[FDD
- CHOICE mode		FDD
- Primary CPICH usage for channel estimation	1	Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value (as
- Power offset P	1	currently stored in SS) mod 38400
- Power offset P _{Pilot-DPDCH}	1	U Not Present
- Secondary CPICH info - DL channelisation code		INOT LIESCHT
- Secondary scrambling code	1	5
- Secondary scrambling code - Spreading factor		Reference to TS34.108 clause 6.10
- Spreading ractor	1	Parameter Set
- Code number	1	0
- Scrambling code change	1	No change
- TPC combination index	1	0
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode	1	Not Present
- SCCPCH information for FACH	1	Not Present
Downlink information for each radio links	A4	NOUT TESCHE
- Choice mode	^7	FDD
- Primary CPICH info		
- Primary scrambling code	1	Ref. to the Default setting in TS34.108 clause
i initially solutioning code	1	6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping	1	Not Present
	i e	,

Information Element	Condition	Value/remark
- Downlink DPCH info for each RL	Condition	Varaoyioniaik
- CHOICE mode		FDD
- Primary CPICH usage for channel estimation		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value
- Di Oi i italile oliset		mod 38400
- Power offset Pellot-DPDCH		0
- Secondary CPICH info		Not Present
- DL channelisation code		NOT FIESEIT
- Secondary scrambling code		5
- Spreading factor		Reference to TS34.108 clause 6.10
- Spreading factor		Parameter Set
- Code number		0
0000		
- 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 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not Present
- SCCPCH Information for FACH		Not Present
- Downlink information for each radio link	A6	Not Present

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message
Integrity check info	
- 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 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 SETUP message: AM or UM

Information Element	Condition	Value/remark
Message Type	A1, A2, A3,	
	A4, A5, A6,	
BB0 4 11 117	A7, A8	
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		SS calculates the value of MAC-I for this
- message authentication code		message and writes to this IE. The first/
		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
Now II DNTI	A7, A8	Not Droppet
New U-RNTI	A1, A2, A3, A4, A5, A6,	Not Present
	A7, A8	
New C-RNTI	A1, A2, A3,	Not Present
11011 0 111111	A4, A7, A8	THE THEODING
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3,	Not Present
	A4, A5, A6,	
	A7, A8	
RRC State indicator	A1, A2, A3,	CELL_DCH
	A4, A7, A8	
RRC State indicator	A5, A6	CELL_FACH
UTRAN DRX cycle length coefficient	A1, A2, A3,	Not Present
	A4, A5, A6,	
CN information info	A7, A8	Not Present
URA identity		Not Present
Signalling RB information to setup		Not Present
RAB information for setup	A1, A7	
- RAB info	·	
- RAB identity		0000 0001B
		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 useT314
- Re-establishment timer		use1314
- RB information to setup		
- RB identity		10
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
RB mapping info Information for each multiplexing option		
- RLC logical channel mapping indicator		Not Present
Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
- MAC logical channel priority		7
- Downlink RLC logical channel info		4
 Number of downlink RLC logical channels Downlink transport channel type 		1 DCH
- DOWNINK transport channel type - DL DCH Transport channel identity		DCH 6
DE DOLL Hansport Granner lucifility	I .	<u> </u>

Information Element	Condition	Value/remark
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
RAB information for setup	A2, A8	
- RAB info		0000 0004 B
- RAB identity		0000 0001B The first/ leftmost bit of the bit string contains
		the most significant bit of the RAB identity.
- CN domain identity		CS domain
- NAS Synchronization Indicator		Not Present
- Re-establishment timer		useT314
- RB information to setup		
- RB identity		10
- PDCP info		Not Present
- CHOICE RLC info type - CHOICE Uplink RLC mode		RLC info TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
 Segmentation indication 		FALSE
- RB mapping info		
- Information for each multiplexing option		
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
 Uplink transport channel type UL Transport channel identity 		DCH 1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
- MAC logical channel priority		6
- Downlink RLC logical channel info		
 Number of downlink RLC logical channels 		1
- Downlink transport channel type		DCH
- DL DCH Transport channel identity		6
- DL DSCH Transport channel identity		Not Present
 Logical channel identity RB identity 		Not Present
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
 RB mapping info Information for each multiplexing option 		
- RLC logical channel mapping indicator		Not Present
Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		2
- 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 Downlink transport channel type 		1 DCH
- DCH Transport channel identity		7
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
- RB identity		12
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
 Segmentation indication CHOICE Downlink RLC mode 		FALSE TM RLC
- Segmentation indication		FALSE
- RB mapping info		
- Information for each multiplexing option		

Information Element	Condition	Value/remark
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		3
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
- MAC logical channel priority		6
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels		1
- 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,	
	A6	
- RAB info	7.0	(AM DTCH for PS domain)
- RAB identity		0000 0101B
1 to 12 feeting		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		4661616
- RB identity		20
- PDCP info		
- Support for lossless SRNS relocation		FALSE
- Max PDCP SN window size		Not present
- PDCP PDU header		Absent
- Header compression information		Not present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		AM RLC
- Transmission RLC discard		AWINEO
- 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_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_Status_profilibit		Not Present
- Missing PDU indicator		TRUE
- Timer_STATUS_periodic		Not Present
- RB mapping info	1	110t / 1000iit
- 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
		Not Present
Logical channel identity CHOICE RLC size list		Configured
- MAC logical channel priority	1	8
		O O
- Downlink RLC logical channel info		1
- Number of downlink RLC logical channels		DCH
Downlink transport channel type DL DCH Transport channel identity		
- DE DOLL Hallsport channel identity	I	6

Information Element	Condition	Value/remark
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
		RACH
- Uplink transport channel type		_
- UL Transport channel identity		Not Present
- 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	A1, A2, A3,	Not Present
	A4, A5, A6,	
	A7, A8	
Downlink counter synchronisation info	A1, A2, A3,	Not Present
Downlink Counter Synonionisation into	A1, A2, A3, A4, A5, A6,	NOCE I GOOD
III Transport shows all information for all transport	A7, A8	
UL Transport channel information for all transport	A1, A2, A3,	
channels	A4, A5, A6,	
	A7, A8	
- PRACH TFCS		Not Present
- CHOICE mode		FDD
- TFC subset		Not Present
- UL DCH TFCS		
- CHOICE TFCI signalling		Normal
- TFCI Field 1 information		
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure information		
- 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
OTT O IIIIOTTIALIOT		reference to TS34.108 clause 6.10.2.4
		Parameter Set
- CTFC		
- 01F0		Reference to TS34.108 clause 6.10.2.4
Davis office the formation		Parameter Set
- Power offset information		
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to
		Signalled Gain Factors)
- Gain factor βc		11 (below 64 kbps)
		9 (higher than 64 kbps) (Not Present if the
		CHOICE Gain Factors is set to Computed
		Gain Factors)
- Gain factor βd		15
· ·		(Not Present if the CHOICE Gain Factors is set
		to Computed Gain Factors)
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P p-m		Not Present
Deleted UL TrCH information	Δ1 Λ2 Λ2	Not Present
Deleted OF HOLLINGHIII	A1, A2, A3,	INOL FIESEIIL
	A4, A5, A6,	
Added on Decention and III. Toold interest in	A7, A8	4 DOLL added 4 DOLL as a set service of
Added or Reconfigured UL TrCH information	A1, A3 A4,	1 DCH added, 1 DCH reconfigured
IL P. L.	A5, A6, A7	DOLL
- 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

Information Element	Condition	Value/remark
- 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
- Number of Transport blocks		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		All
		Deference to TC24 100 eleves 6 10 December
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
Time of sharped anding		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
On diam Data		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
B		Set Tool too I also be
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
000 :		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Uplink transport channel type		DCH
- UL Transport channel identity		5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
 Dynamic Transport format information 		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
 Number of Transport blocks 		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
Added or Reconfigured UL TrCH information	A2, A8	4 TrCHs(DCH for DCCH and 3DCHs for
7 tausa si 1100011119an sa 2 11011 111101111an si	7.2,7.0	DTCH)
- Uplink transport channel type		DCH
- UL Transport channel identity		5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
Trainbor of Trainsport blooks		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		/ W
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Transmission time interval		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
		Set
Coding Pate		Reference to TS34.108 clause 6.10 Parameter
- Coding Rate		Set
Data matching attribute		
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
CPC pizo		
- CRC size		Reference to TS34.108 clause 6.10 Parameter
Linding transport about 11 to		Set
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		

Information Element	Condition	Value/remark
- CHOICE Transport channel type	2 2	Dedicated transport channels
- Dynamic Transport format information		200/00/00 Harrisport originion
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- NLO Size		Set
 Number of TBs and TTI List 		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		/ ""
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
Transmission time interval		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
Determentable a stalle sta		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
- ORG SIZE		Set
Unlink transport shapped type		DCH
- Uplink transport channel type		_
- UL Transport channel identity		2
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		D (T004 400 L
- 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 		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 		(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
9		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
CHOICE mode	A1, A2, A3,	
	, -,,,	ı

Information Element	Condition	Value/remark
	A4, A5, A6,	20 20 20 20
OBOU UB	A7, A8	N.B.
- CPCH set ID - Added or Reconfigured TrCH		Not Present Not Present
information for DRAC list		Not Flesent
DL Transport channel information common for all	A1,A2, A7,	
transport channel - SCCPCH TFCS	A8	Not Present
- SCOPCH TPCS - CHOICE mode		FDD
- CHOICE DL parameters		SameasUL
DL Transport channel information common for all	A3, A4, A5,	
transport channel - SCCPCH TFCS	A6	Not Dropout
- SCOPCH TPCS - CHOICE mode		Not Present FDD
- CHOICE DL parameters		Explicit
- DL DCH TFCS		·
- CHOICE TFCI Signalling - TFCI Field 1 Information		Normal
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure		Complete recomingulation
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from clause
- CTFC information		TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
- CTFC		Reference to TS34.108 clause 6.10.2.4
Davier offert information		Parameter Set
- Power offset information Deleted DL TrCH information	A1, A2, A3,	Not Present Not Present
Boleted BE Horr Information	A4, A5, A6,	Not i resent
	A7, A8	
Added or Reconfigured DL TrCH information	A1	1 DCH added, 1 DCH reconfigured
Downlink transport channel type DL Transport channel identity		DCH 6
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		1
- DCH quality target - BLER Quality value		-2.0
- Downlink transport channel type		DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
 Uplink transport channel type UL TrCH identity 		DCH 5
- DCH quality target		
- BLER Quality value	10000	-2.0
Added or Reconfigured DL TrCH information	A3, A4, A5, A6, A7	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Downlink transport channel type	Λυ, ΛΙ	DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
 Uplink transport channel type UL TrCH identity 		DCH 5
- DCH quality target		, , , , , , , , , , , , , , , , , , ,
- BLER Quality value		-2.0
- Downlink transport channel type		DCH
DL Transport channel identity CHOICE DL parameters		6 Explicit
- TFS		Explicit
- CHOICE Transport channel type		Dedicated transport channel
- Dynamic transport format information		Peteronee to TC24 409 elevine C 40 Pererotter
- 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

Information Element	Condition	Value/remark
- Number of Transport blocks	Condition	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
Added or Reconfigured DL TrCH information	A2, A8	4 TrCHs(DCH for DCCH and 3DCHs for DTCH)
 Downlink transport channel type 		DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type - UL TrCH identity		DCH 5
- DCH quality target		S
- BLER Quality value		-2.0
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters - TFS		Explicit
- CHOICE Transport channel type - Dynamic transport format information		Dedicated transport channel
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(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 - 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		
- BLER Quality value		Not Present
- Downlink transport channel type		DCH
- DL Transport channel identity		7
- CHOICE DL parameters		Explicit
- TFS		
- CHOICE Transport channel type		Dedicated transport channel
Dynamic transport format informationRLC Size		Reference to TS34.108 clause 6.10 Parameter
Number of TDs and TTLL ist		Set (This IE is reported for TEI number)
Number of TBs and TTI List Dynamic transport format information		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list - Semi-static Transport Format information		All

Information Flowant	Condition	Valua/ramark
Information Element	Condition	Value/remark
- 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
- DCH quality target		301
- BLER Quality value		Not Present
- Downlink transport channel type		DCH
- DL Transport channel identity		8
- CHOICE DL parameters		Explicit
- TFS		Exprior
- CHOICE Transport channel type		Dedicated transport channel
- Dynamic transport format information		Bodioatoa transport oriannoi
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
N. J. (TD. J.TTILL)		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
- 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
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target		Oct
- BLER Quality value		Not Present
Frequency info	A1, A2, A3,	THOU TOOSIN
Troquonoy mile	A4, A5, A7, A8	
- UARFCN uplink (Nu)		Reference to clause 5.1 Test frequencies if
		frequency is different from the current
		frequency otherwise set to Not Present.
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies if
		frequency is different from the current
		frequency otherwise set to Not Present.
Frequency info	A6	Not Present
Maximum allowed UL TX power	A1, A2, A3,	33dBm
Maximum anowed OL 17 power	A1, A2, A3, A4, A7, A8	OOGDIII
Maximum allowed UL TX power	A5, A6	Not Present
		Uplink DPCH info
CHOICE channel requirement	A1, A2, A3,	Opinik DPCH INIO
- Unlink DPCH power control info	A4, A7, A8	
- Uplink DPCH power control info		20dB (i.e. ASN 1 IE value of 40)
- DPCCH power offset		-80dB (i.e. ASN.1 IE value of –40)
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
- Scrambling code type		Long
- Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set
	_1	

Information Element	Condition	Value/remark
- Number of FBI bit	Condition	Reference to TS34.108 clause 6.10 Parameter
Number of February		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	
- Downlink PDSCH information		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 Parameter
3		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
0.1010-05		Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
0110105		Set
- CHOICE mode		FDD
- DPCH compressed mode info		Not Present None
- TX Diversity mode - SSDT information		Not Present
- Default DPCH Offset Value		Not Present
Downlink information common for all radio links	A4,A7,A8	Hot Froom
- 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 Spreading factor 		Not Present 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 - SSDT information		None Not Present
- SSDT Information - Default DPCH Offset Value		Not Present Arbitrary set to value 0306688 by step of 512
Downlink information common for all radio links	A5,A6	Not Present
Downlink information for each radio link list	A1, A2, A3,	110t / 1000Ht
2 3 III MICHIGAN IN GOOD TO GO	A4, A7, A8	
- Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Primary CDICH may be used
Primary CPICH usage for channel estimation DPCH frame offset		Primary CPICH may be used Set to value Default DPCH Offset Value (as
- DI CITTIAINE ONSEL		currently stored in SS) mod 38400
	1	Joan only stored in Go) mod 50400

Information Element	Condition	Value/remark
- Secondary CPICH info - DL channelisation code - Secondary scrambling code - Spreading factor		Not Present 1 Reference to TS34.108 clause 6.10 Parameter
- Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH		Set 0 No change 0 Not Present Not Present Not Present
Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code	A5	FDD Ref. to the Default setting in TS34.108 clause
- PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - SCCPCH information for FACH Downlink information for each radio link list	A6	6.1 (FDD) Not Present Not Present Not present Not Present 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

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
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 Uplink counter synchronisation info	Not checked Not checked

Contents of RADIO BEARER SETUP FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER SETUP message.
Integrity check info	
- 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
Message Type	A1,A2,A3,	
DDC transaction identifier	A4,A5,A6	Aubitmoully palents on interest between 0 10
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		OO salaulatas tha walus of MAO Life wile
- 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
DDQ .		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	Not Present
New U-RNTI	11 10 10	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
	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
RAB information to reconfigure list		Not Present
RB information to reconfigure list	A1	TS25.331 specifies that "Although this IE is not
-		always required, need is MP to align with
		ASN.1".
 RB information to reconfigure 		(UM DCCH for RRC)
- RB identity		1
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
 RB mapping info 		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for RRC)
- RB identity		2
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)
- RB identity		3
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for NAS_DT Low priority)
- RB identity		4 Not Droppet
- 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	ļ	Not Present

Information Element	Condition	Value/remark
- RB stop/continue		Not Present
RB information to reconfigure list	A2	TS25.331 specifies that "Although this IE is not always required, need is MP to align with
DP information to reconfigure		ASN.1".
- RB information to reconfigure - RB identity		(UM DCCH for RRC)
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for RRC)
- RB identity - PDCP info		2 Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)
- RB identity		3
- PDCP info - PDCP SN info		Not Present Not Present
- PDCP SN IIII0 - 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 - RB stop/continue		Not Present 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 peeded for 12.2 khps and 10.2
		(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 RB information to reconfigure list	A3,A4,A5,	Not Present TS25.331 specifies that "Although this IE is not
TO INIOMIATION to recomingure list	A3,A4,A5, A6	always required, need is MP to align with ASN.1".
- RB information to reconfigure		(UM DCCH for RRC)
- RB identity		l i
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue - RB information to reconfigure		Not Present (AM DCCH for RRC)
- RB identity		2

Information Element	Condition	Value/remark
- PDCP info	- Jonation	Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)
- RB identity		3 Net Brosset
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
 RB information to reconfigure 		(AM DCCH for NAS_DT Low priority)
- RB identity		4
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DTCH)
- RB identity		20
- RB identity - PDCP info		Not Present
		Not Present
- PDCP SN info		
- 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,	
	A6	
UL Transport channel information for all transport	A1, A2,	Not Present
channels	A5,A6	
UL Transport channel information for all transport	A3, A4	
channels		
- PRACH TFCS		Not Present
- CHOICE mode		FDD
- TFC subset		Not Present
- UL DCH TFCS		
- CHOICE TFCI signalling		Normal
- TFCI Field 1 information		Tromai
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure information		Complete reconfiguration
		No make a set hite was allowed by a second to a second
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from TS34.108
075017		clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
		Parameter Set
- CTFC		Reference to TS34.108 clause 6.10.2.4
		Parameter Set
- Power offset information		
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to
		Signalled Gain Factors)
- Gain factor βc		11 (below 64 kbps)
		9 (higher than 64 kbps)
		(Not Present if the CHOICE Gain Factors is set
		to ComputedGain Factors)
- Gain factor βd		15
Gaiii iaotoi pa		(Not Present if the CHOICE Gain Factors is set
Deference TEO ID		to ComputedGain Factors)
- Reference TFC ID		0
- CHOICE mode		FDD
Llower offeet D n m	1	Not Present
- Power offset P p-m		
Deleted UL TrCH information	A1, A2, A3,	Not Present
	A1, A2, A3, A4, A5,A6 A1, A2,	

Information Element	Condition	Value/remark
	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		5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		D (TOC ((CO))
- 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
Transor of Transport Stocke		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- 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 L
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List		Set (This IS is reported for TSI surebox)
- Transmission Time Interval		(This IE is repeated for TFI number.) Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
- Number of Transport blocks		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		All
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
Transmission time interval		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
71		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		D (TOC ((CO)
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
Number of TDe and TTLL ist		Set (This IF is reported for TFI number)
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
CHOICE Logical Channel list		Set All
- CHOICE Logical Channel list - Semi-static Transport Format information		All
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Hansinission tille interval		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
Typo or original looding		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
Journa Marco		1.0.0.0.000 to 100 1.100 diadoc 0.101 diameter

Information Element	Condition	Value/remark
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter
- CRC size		Set Reference to TS34.108 clause 6.10 Parameter
CHOICE mode	A1,A2,A3,	Set FDD
	A4,A5,A6	
- CPCH set ID - Added or Reconfigured TrCH information for DRAC list		Not Present Not Present
DL Transport channel information common for all transport channel	A1, A2, A5, A6	Not Present
DL Transport channel information common for all transport channel	A3,A4	
- SCCPCH TFCS		Not Present
- CHOICE mode		FDD
- CHOICE DL parameters - DL DCH TFCS		Explicit
- CHOICE TFCI Signalling - TFCI Field 1 Information		Normal
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure - CHOICE CTFC Size		Number of bits used must be enough to cover
3.13.62 3.11 3 3.23		all combinations of CTFC from clause
- CTFC information		TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
- CTFC		Reference to TS34.108 clause 6.10.2.4 Parameter Set
- Power offset information		Not Present
Deleted DL TrCH information	A1, A2, A3, A4, A5,A6	Not Present
Added or Reconfigured DL TrCH information	A1, A2, A5, A6	Not Present
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)
Downlink transport channel type DL Transport channel identity		DCH 10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		5
- DCH quality target		
- 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 Parameter
- Number of TBs and TTI List		Set (This IE is repeated for TFI number.)
- Dynamic transport format information		(This is to repeated for it indifficer.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
- CRC size		Set Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target		

- BLER Quality value Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel type - Dynamic transport channel type - Dynamic transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC Size - DCH quality target - BLER Quality value - CRC Size - DCH quality target - BLER Causity value - Prequency info - VARFCN downlink (Nd) - Transmission time interval - DPCCH power control info - TFCI existence - Number of FBL bit - Puncturing Limit - Processing size by pe - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBL bit - Puncturing Limit - Downlink IPDSCH information - TRICH Green on the power control infos - Downlink IPDSCH information - Downlink IPDSCH prover control information - DRC mode - Downlink IPDSCH prover control information - DRC mode - Downlink IPDSCH prover control information - DRC mode - Downlink IPDSCH prover control information - DRC mode - Downlink IPDSCH prover control information - DRC mode - DRC mode - Downlink I	Information Element	Condition	Value/remark
Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel dentity - CHOICE DL parameters - TFS - CHOICE Transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CHOICE channel requirement - Uplink DPCH power control info - DPCCH power offset - PPC presentle - SRB delay - Power Control Algorithm - TPC step size - Scrambling code number - Number of PDDCH - spreading factor - TPC lexistence - Number of FB bit - Puncturing Limit - Downlink PDSCH information - Downlink information common for all radio links - Downlink information common for all radio links - Downlink information common for all radio links - Downlink information common for all RL - Timing indicator - PC mode - Downlink information common for all RL - Timing indicator - Downlink information common for all RL - Timing indicator - Downlink information common for all RL - Timing indicator - Downlink information common for all RL - Timing indicator - Downlink information common for all RL - Timing indicator - Downlink information common for all RL - Timing indicator - Downlink information common for all RL - Timing indicator - Downlink information common for all radio links - Downlink information common for all RL - Timing indicator - CPN-targetSPN frame offset - Downlink information common for all RL - Timing indicator			
DCH OLT Transport channel lentity OHOICE DL parameters FFS OHOICE Transport format information RLC Size Number of TBs and TTI List Dynamic transport format information Transmission Time Interval Number of Transport Dlocks Semi-static Transport Format information Transmission Time Interval Type of channel coding Coding Rate Reference to TS34.108 clause 6.10 Parameter Set Reference to Clause 5.1 Test frequencies Reference to TS34.108 clause 6.10 Parameter Set R		A3	
- CHOICE DL parameters - TFS - CHOICE Transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Frequency info - UARFCN uplink (Nu) - UARFCN downlink (Nd) - Transmission time - Maximum allowed UL TX power - Maximum allowed UL TX power - CHOICE channel requirement - TPC step size - Power Control Algorithm - TPC step size - Scrambiling code type - Scrambiling code			DCH
- TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission Time Interval - Number of Transport Format information - Transmission time interval - Number of Transport Format information - Transmission time interval - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - TPC size - DCH quality target - LARFCN uplink (Nu) - UARFCN downlink (Nu) - UARFCN downlink (Nd) - TRANSMISSION (Nu) - UARFCN downlink (Nd) - TRANSMISSION (Nu) - UARFCN downlink (Nd) - Prequency info - Maximum allowed UL Tx power - AdA5,86 - CHOICE tenannel requirement - Number of DPDCH - Spreading factor - TFCI existence - Number of DPDCH - spreading factor - TFCI existence - Number of PBI bit - Puncturing Limit - Puncturing Limit - Downlink information - Downlink information common for all radio links - Downlink DPCH plower common for all radio links - Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH plower common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH plower common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH plower common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH plower common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH plower control information - DPC mode			
- CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission Time interval - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Coding Rate - Coding Rate - Rate matching attribute - CRC size - DCH quality target - DLER Quality value - CRC size - DCH quality target - BLER Quality value - CHOICE Channel requirement - Uplink DPCH power control info - DPCCH power offset - PCP creamble - Stanbling code number - Number of PBI bit - Puncturing Limit - Puncturing Limit - Downlink information common for all radio links - Downlink inf			Explicit
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- Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit CHOICE channel requirement CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - DPC mode Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.10			
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Set - TFCI existence - Number of FBI bit - Puncturing Limit CHOICE channel requirement CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Set Reference to TS34.108 clause 6.10 Parameter			
- TFCI existence - Number of FBI bit - Puncturing Limit CHOICE channel requirement CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108	- Spicauliy lactor		
- Number of FBI bit - Puncturing Limit CHOICE channel requirement CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 Parameter Set Reference to TS34.108 Param	- TFCI existence		
- Number of FBI bit - Puncturing Limit CHOICE channel requirement CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Reference to TS34.108 clause 6.10 Parameter Set Not Present Not Present Not Present Of Set Parameter Set Of Set Parameter Set Reference to TS34.108 clause 6.10 Parameter Reference to TS34.108 clause 6.10 Parameter Reference to TS34.108 clause			
- Puncturing Limit - Puncturing Limit - Puncturing Limit - Reference to TS34.108 clause 6.10 Parameter Set CHOICE channel requirement - A5, A6 - Not Present - Downlink PDSCH information - Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - Decomposed Set - Puncturing Limit - A5, A6 - Not Present - Not Present - Maintain Not Present - O (single)	- Number of FBI bit		
CHOICE channel requirement CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode A1, A2, A3 Not Present A1, A2, A3 Maintain Not Present O (single)			
CHOICE channel requirement CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode A5, A6 Not Present Not Present A1, A2, A3 A1, A2, A3 Maintain Not Present O (single)	- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter
CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode A1, A2, A3 Not Present A1, A2, A3 Maintain Not Present O (single)			
- Downlink PDSCH information Downlink information common for all radio links Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode A4,A5,A6 Not Present A1, A2, A3 Maintain Not Present O (single)		,	
- Downlink PDSCH information Downlink information common for all radio links Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Not Present A1, A2, A3 Maintain Not Present 0 (single)	CHOICE Mode		FDD
Downlink information common for all radio links Downlink information common for all radio links Downlink DPCH info common for all RL Timing indicator CFN-targetSFN frame offset Downlink DPCH power control information DPC mode A5, A6 Not Present Maintain Not Present O (single)	Downlink DDCCH information	A4,A5,A6	Not Procent
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode A1, A2, A3 Maintain Not Present 0 (single)		Λ5 Λ6	
- Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Maintain Not Present 0 (single)			INOU FIESEIIL
- Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Maintain Not Present 0 (single)		A1, A2, A3	
- CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode Not Present 0 (single)			Maintain
- Downlink DPCH power control information - DPC mode 0 (single)			
- DPC mode 0 (single)			
			0 (single)
	- CHOICE mode		

Information Element	Condition	Value/remark
- Power offset P _{Pilot-DPDCH}		0
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value	A 4	Not Present
Downlink information common for all radio links	A4	
- Downlink DPCH info common for all RL		
- Timing indicator		Initialise
 CFN-targetSFN frame offset 		Not Present
 Downlink DPCH power control information 		
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P _{Pilot-DPDCH}		0
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter Set
DDCH compressed made into		Not Present
- DPCH compressed mode info		None
- TX Diversity mode - SSDT information		110110
		Not Present
- Default DPCH Offset Value		Present Arbitrary set to value 0306688 by step of 512
Downlink information per radio link list	A1, A2, A3	
-Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
Triniary columning code		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not i lesent
- Primary CPICH usage for channel estimation		Primary CPICH may be used
- DPCH frame offset		Set to value Default DPCH Offset Value (as
- Di Oli lialle oliset		
Secondary CDICH info		currently stored in SS) mod 38400
- Secondary CPICH info		Not Present
- Secondary scrambling code		
- channelisation code		
- DL channelisation code		
- Secondary scrambling code		2
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
<u> </u>		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH		Not Present
Downlink information per radio link list	A4	
-Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		6.1 (FDD)
	i e	/

Information Element	Condition	Value/remark
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
 Downlink DPCH info for each RL 		
 Primary CPICH usage for channel estimation 		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value mod
		38400
- Secondary CPICH info		Not Present
- Secondary scrambling code		
 channelisation code 		
 DL channelisation code 		
- Secondary scrambling code		2
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
 Closed loop timing adjustment mode 		Not Present
- SCCPCH information for FACH		Not Present
 Downlink information for each radio link 	A5, A6	
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not present
- SCCPCH Information for FACH		Not Present

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"

Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identitifer	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION
	message.
Integrity check info	
- 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 checked

Contents of RADIO BEARER RELEASE message: AM or UM

Information Element		Value/remark
Message Type	A1, A2, A3, A4, A5, A6, A7, A8	
RRC transaction identifier	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 Ciphering mode info		Not Present Not Present
Activation time	A1, A2, A3,	(256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time New U-RNTI	A7, A8 A4, A5, A6	Not Present Not Present
New C-RNTI	A1,A2,A3, A4	Not Present
New C-RNTI	A5, A6, A7, A8	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3, A4, A5, A6, A7, A8	Not Present
RRC State indicator	A1,A2, A3, A4	CELL_DCH
RRC State indicator	A5, A6, A7, A8	CELL_FACH
UTRAN DRX cycle length coefficient	A1,A2,A3, A4,A5,A6, A7, A8	Not Present
CN information info Signalling Connection release indication URA identity RAB information to reconfigure list	711,710	Not Present Not Present Not Present Not Present Not Present
RB information to release	A1,A2, A7, A8	
- RB identity RB information to release	A2, A8	10
- RB identity RB information to release	A2, A8	11
- RB identity RB information to release	A3, A4, A5,	12
- RB identity	A6	20
RB information to be affected	A1,A2, A3,A4,A5, A6, A7, A8	Not Present
Downlink counter synchronisation info	A1,A2,A3, A4,A5,A6, A7, A8	Not Present
UL Transport channel information for all transport channels	A1, A2, A3, A4, A5, A6, A7, A8	TFCS reconfigured to fit the new transport channel configuration.
Deleted UL TrCH Information	A1,A2, A3, A4, A5, A6, A7, A8	
- Uplink transport channel type - Transport channel identity		DCH 1
Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity	A2, A8	DCH 2
Deleted UL TrCH Information - Uplink transport channel type - Transport channel identity	A2, A8	DCH 3

Information Element		Value/remark
Added or Reconfigured UL TrCH information	A5, A6, A7,	Not Present
· ·	A8	
Added or Reconfigured UL TrCH information	A1, A2, A3, A4	TrCHs(DCH for DCCH)
 Uplink transport channel type 		DCH
 UL Transport channel identity 		5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
 Dynamic Transport format information 		
- RLC Size		According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- Number of Transport blocks		According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		7 M
- Transmission time interval		According to TS34.108 clause 6.10.2.4.1.3
- Hansinission unic interval		(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
- Odding Nate		(standalone 13.6 kbps signalling radio bearer)
- Rate matching attribute		According to TS34.108 clause 6.10.2.4.1.3
rate matering attribute		(standalone 13.6 kbps signalling radio bearer)
- CRC size		According to TS34.108 clause 6.10.2.4.1.3
0110 0120		(standalone 13.6 kbps signalling radio bearer)
DL Transport channel information for all transport	A1, A2, A3,	TFCS reconfigured to fit the new transport
channels	A4, A5,A6, A7, A8	channel configuration.
Deleted DL TrCH Information	A1, A2, A3,A4, A5,A6, A7, A8	
 Downlink transport channel type Transport channel identity 		DCH 6
Deleted DL TrCH Information	A2, A8	
- Downlink transport channel type	712,710	DCH
- Transport channel identity		7
Deleted DL TrCH Information	A2, A8	
- Downlink transport channel type	, , , , ,	DCH
- Transport channel identity		8
Added or Reconfigured DL TrCH information	A5, A6, A7, A8	Not Present
Added or Reconfigured DL TrCH information	A1, A2, A3, A4	1 TrCHs(DCH for DCCH)
- Downlink transport channel type		DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		5
- DCH quality target		
- BLER Quality value		Not Present
Frequency info	A1,A2,A3, A4,A5,A7, A8	
- UARFCN uplink (Nu)		Reference to clause 5.1 Test frequencies
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	1.0	33dBm
Frequency info	A6	Not present
CHOICE channel requirement	A5, A6, A7, A8	Not Present
CHOICE channel requirement	A1,A2,A3, A4	Uplink DPCH info
 Uplink DPCH power control info 		

DPCCH prover offset PPC Prepare offset PPC Step size PPOVE COntrol Algorithm PPC step size Scrambling code tumber Number of DPDCH spreading factor PPC step size PPOVE Octor of State of PPCCH PPOVE Offset Palue PPOVE Offset Prepare	Information Element		Value/remark
- PC Preamble - SR8 delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit - Downlink PDSCH information - Downlink Information common for all radio links - Downlink Information common for all radio links - Downlink DPCH proper control information - DPC mode - CHOICE mode			
- SRB delay - Power Control Algorithm - TPC step size - Scarambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit - Refer			· ·
- Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code umber - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit - Puncturing Limit - Puncturing Limit CHOICE Mode - Al, AS, AS, AS, AS, AS, AS, AS, AS, AS, AS			
- TFC step size - Scarmbling code number - Number of DPDCH - spreading factor - TFCI existence - Number of BPI bit - Puncturing Limit - Punctu			
- Scrambling code type - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - FFCI existence - Number of FBI bit - Puncturing Limit - Puncturing Limit CHOICE Mode - Downlink PDSCH information - Downlink information common for all radio links - Downlink information - DPC mode - Power offset Psiko-poch - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - DPC mode - CHOICE mode - Power offset Psiko-poch - Dut all to PCH offset Value - Downlink information common for all RL - Triming information - DPC mode - CHOICE mode - Power offset Psiko-poch - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - Fixed properties of the properties of t			
- Scrambling code number Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit CHOICE Mode - Downlink PDSCH information Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH plower control information - DPC mode - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - DPC mode - CHOICE mode - CHOICE mode - CHOICE mode - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information common for all radio links - Downlink Information common for all radio links - Downlink DPCH plower control information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE mode - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE mode - CHOICE			
- Number of DPDCH - spreading factor - Spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit CHOICE Mode - Downlink PDSCH information - Downlink information common for all radio links - Downlink information - DPC mode - Power offset Pelion Peccit - DI rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - DPC mode - CHOICE mode - CHO			
- spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit CHOICE Mode - A1,A2,A3, FDD - A4,A5,A6,A7,A8 - Downlink PDSCH information - Downlink information common for all radio links - Downlink information - DPC mode - CHOICE mode - Power offset Ppaus-Dopcid - DL rate matching restriction information - Spreading factor - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - DPC mode - CHOICE mode - Power offset Ppaus-Dopcid - DL rate matching restriction information - DPC mode - CHOICE mode - Power offset Ppaus-Dopcid - DL rate matching restriction information - DPC mode - CHOICE mode - Power offset Ppaus-Dopcid - CHOICE mode - Power offset Ppaus-Dopcid - CHOICE mode - CHOICE mode - Power offset Ppaus-Dopcid - Power offse			
- TFCI existence - Number of FBI bit - Puncturing Limit - Punctur			
- Number of FBI bit - Puncturing Limit - Puncturing Limit CHOICE Mode A1,A2,A3, A4,A5,A6, A7,A8 Downlink PDSCH information Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset Pewschoerd - DL rate matching restriction information - Spreading factor - TFCI existence - SSDT information - DPCH compressed mode info - TX Diversity mode - SSDT information - DPCH compressed mode fise - Downlink DPCH procention for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH offset value - SSDT information - Default DPCH Offset Value - Downlink information common for all radio links - Downlink information common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH infore common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH infore common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH infore common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH infore common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH infore common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH infore common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink information for each radio links - Downlink information for each radio link list - Downlink information for each radio li	- spreading factor		
Puncturing Limit CHOICE Mode A1,A2,A3, A4,A5,A6, A7,A8 Downlink PDSCH information Downlink information common for all radio links Downlink information common for all RL Timing indicator CFN-targetSFN frame offset Downlink DPCH ower control information DPC mode CHOICE mode Power offset Peiscencid DPC mode CHOICE sF CHOICE SF DPCH compressed mode info TX Diversity mode SSDT information Devalink information common for all RL Timing indicator CFN-targetSFN frame offset Downlink DPCH divencement TFCI existence CHOICE SF DPCH compressed mode info TX Diversity mode SSDT information Devaluit DPCH Offset Value Downlink information common for all RL Timing indicator CFN-targetSFN frame offset Downlink information common for all RL Timing indicator CFN-targetSFN frame offset Downlink DPCH divencement DPC mode CHOICE mode Power offset Peiscenced Downlink DPC hid or expected TFCI existence TFCI existence CFN-targetSFN frame offset Downlink information Spreading factor TFCI existence TFIxed or Flexible Position TFCI existence TFIxed or Flexible Position TFCI existence TFIxed or Flexible Position TFCI existence TFIXED TYPE of TYPE	- TFCI existence		
CHOICE Mode CHOICE Mode A1,A2,A3, A4,A5,A6, A7, A8 Downlink PDSCH information Downlink information common for all radio links Downlink information common for all radio links Downlink DPCH info common for all RL Timing indicator CPN-tragetSFN frame offset Downlink DPCH power control information - DPC mode Power offset Prince-proced - CHOICE SF Default DPCH Offset Value Downlink DPCH info common for all RL Timing indicator CPN-tragetSFN frame offset Downlink information common for all radio links - Downlink information - Spreading factor CHOICE SF DPCH compressed mode info TX Diversity mode SSDT information DPC mode CHOICE SF DPCH compressed mode info TFCI existence - CHOICE SF Default DPCH Offset Value Downlink information common for all radio links Downlink DPCH power control information DPC mode CHOICE mode CPN-tragetSFN frame offset Downlink DPCH power control information DPC mode CHOICE mode CPN-tragetSFN frame offset Downlink DPCH power control information Typesant Timing indicator CPN-tragetSFN frame offset Downlink DPCH power control information DPC mode CHOICE mode CPN-tragetSFN frame offset Downlink DPCH power control information Typesant Typesant Not Present A4 A4 A4 A4 A4 A4 A4 A4 A4 A	- Number of FBI bit		
- Downlink PDSCH information Downlink information common for all radio links - Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - CHOICE mode - Default DPCH Offset Value Downlink DPCH info common for all RL - Timing indicator - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TCFN-targetSFN frame offset - Downlink DPCH power control information - Spreading factor - CFN-targetSFN frame offset - Downlink DPCH power control information - Spreading factor - Fixed or Flexible Position - TCFN-targetSFN frame offset - CHOICE sF - DPCH compressed mode info - TX Diversity mode - SSDT information - Spreading factor - TFCI existence - CHOICE sF - DPCH compressed mode info - TX Diversity mode - SSDT information - Spreading factor - TX Diversity mode - SSDT information - Spreading factor - TX Diversity mode - SSDT information - Default DPCH Offset Value - Downlink information for each radio link list	- Puncturing Limit		
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		A1,A2,A3	
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	- Choice mode		ן אטט

Information Element	T	Value/remark
- Primary CPICH info		value/lellialk
		Def to the Default setting in TOO4 400
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
BBOOK 34 ONO BOLL: (6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		
 Primary CPICH usage for channel estimation 		Primary CPICH may be used
- DPCH frame offset		Set to value Default DPCH Offset Value (as
		currently stored in SS) mod 38400
- Secondary CPICH info		Not Present
- Secondary scrambling code		
- channelisation code		
- DL channelisation code		
- Secondary scrambling code		3
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
Spreading there.		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
		Not Present
- Closed loop timing adjustment mode		
- SCCPCH information for FACH		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 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
 Downlink DPCH info for each RL 		
 Primary CPICH usage for channel estimation 		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value mod
		38400
- Secondary CPICH info		Not Present
- Secondary scrambling code		
- channelisation code		
- DL channelisation code		
- Secondary scrambling code		3
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Code number		0
- Scrambling code change		
		No change
- TPC combination index		0 Not Procent
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH	A 5 A 7 A 6	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
- Downlink DPCH info for each RL		Not present
- SCCPCH information for FACH		Not Present
- Downlink information for each radio link	A6	Not Present
Downlink information for Each radio link	1 / 10	1101 1 1000111

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"
A7	This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"
A8	This IE need for "Speech to CELL_FACH from CELL_DCH in CS"

Contents of RADIO BEARER RELEASE COMPLETE message: AM

Message Type	
RRC transaction identifier	Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.
Integrity check info	
- 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 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
Message Type	
Initial UE identity	
- CHOICE UE id type	
- TMSI and LAI (GSM-MAP)	Set to the UE's TMSI and LAI.
Establishment cause	To be checked against requirement if specified
Protocol error indicator	FALSE
UE Specific Behaviour Information 1 idle	This IE will not be checked by default, but in specific test
·	case
Measured results on RACH	To be checked against requirement if specified

Contents of RRC CONNECTION REJECT message: UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Initial UE identity	Select the same type as in the IE "Initial UE Identity" in
	RRC CONNECTION REQUEST" message.
Rejection cause	Unspecified
Wait Time	0
Redirection info	Not Present

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
Message Type	
U-RNTĬ	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0001B
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
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	TDUE
- UE radio access FDD capability update	TRUE
requirement - UE radio access TDD capability update	FALSE
requirement	IFALSE
- System specific capability update requirement list	GSM
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	
- RLC info	
- 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 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	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	Not Present
- Logical channel identity Signalling RB information to setup	1 (AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	_
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	32
- Timer_RST	500
- Max_RST	

Information Element	Value/remark
- Polling info	FUIGOTOTIAIR
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
Last retransmission PDU pollPoll_Window	TRUE 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 - Missing PDU indicator	Not present TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not Frederic
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity - CHOICE RLC size list	Configured
- MAC logical channel priority	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 RLC logical channel mapping indicator	2 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
MAC logical channel priority	13.6 kbps signalling radio bearer) 2
- MAC logical channel priority - Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(AM DOOLI (an NAC DT High projects)
Signalling RB information to setup - RB identity	(AM DCCH for NAS_DT High priority) 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 - Timer_RST	32 500
- Max_RST	1
- Polling info	[
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
Last transmission PDU poll Last retransmission PDU poll	TRUE TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
. – –	

Information Floriant	Welve from selv
Information Element - CHOICE Downlink RLC mode	Value/remark 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	o DDM - O . ()
 Information for each multiplexing option RLC logical channel mapping indicator 	2 RBMuxOptions
Number of RLC logical channels	Not Present
- 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 Logical channel identity 	Not Present 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 legical about al priority	13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
 Downlink RLC logical channel info Number of RLC logical channels 	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	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	AW ILLO
- 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 Net present
- Poll_PDU - Poll_SDU	Not present
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
 Timer_poll_periodic 	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	32
- Downlink RLC status info	200
- Timer_status_prohibit- Timer_EPC	200 Not Present
- filler_EFC - Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
· · · · · · · · · · · · · · · · · · ·	

Information Element	Value/remark
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured
 MAC logical channel priority 	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
 Downlink transport channel type 	DCH
 DL DCH Transport channel identity 	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	
- Uplink transport channel type	RACH Not Present
- UL Transport channel identity	Not Present 4
Logical channel identity CHOICE RLC size list	•
- RLC size index	Explicit List According to TS34.108 clause 6.10.2.4.1.3 (standalone
- NEO SIZO IIIUGA	13.6 kbps signalling radio bearer)
- MAC logical channel priority	4
- Downlink RLC logical channel info	l'
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	O I - t -
- CHOICE TFCS representation	Complete
- TFCS complete reconfigure - CHOICE CTFC Size	2hit CTEC
- CTFC information	2bit CTFC This IE is repeated for TFC numbers according to TS34.108
- CTI C IIIIOTTIALIOTT	clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio
	bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled
	Gain Factors)
- Gain factor ßc	11 (below 64 kbps)
	9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain Factors)
- Gain factor ßd	15
	(Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD Not Brooms
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information	DCH
Uplink transport channel type UL Transport channel identity	DCH
- OL Transport channel identity - TFS	<u> </u>
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	Doulouted transport enaminers
- 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 lists	(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)

- SSDT information

Information Element Value/remark - Number of Transport blocks According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Type of channel coding kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Coding Rate kbps signalling radio bearer) - Rate matching attribute According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - CRC size kbps signalling radio bearer) DL Transport channel information common for all transport channel - SCCPCH TFCS Not Present - CHOICE mode FDD - CHOICE DL parameters Same as UL Added or Reconfigured DL TrCH information - Downlink transport channel type DCH - DL Transport channel identity 10 - CHOICE DL parameters Same as UL - Uplink transport channel type **DCH** - UL TrCH Identity - DCH quality target - BLER Quality value -2.0 Frequency info Not Present Maximum allowed UL TX power Not Present Uplink DPCH info - Uplink DPCH power control info - DPCCH power offset -80dB (i.e. ASN.1 IE value of -40) - PC Preamble 1 frame - SRB delay 7 frames - Power Control Algorithm Algorithm1 - TPC step size 1dB - Scrambling code type Long - Scrambling code number 0 (0 to 16777215) - Number of DPDCH Not Present(1) - Spreading factor According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - TFCI existence kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Number of FBI bit kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) - Puncturing Limit kbps signalling radio bearer) Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication Initialise - CFN-targetSFN frame offset Not Present - CHOICE mode FDD - Downlink DPCH power control information - DPC mode 0 (single) - Power offset P Pilot-DPDCH - DL rate matching restriction information Not Present According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Spreading factor kbps signalling radio bearer) - Fixed or Flexible Position According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - TFCI existence kbps signalling radio bearer) - CHOICE SF According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) - DPCH compressed mode info Not Present - TX Diversity mode None

Not Present

Information Element	Value/remark
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
 Primary CPICH usage for channel estimation 	Primary CPICH may be used
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Code number	0
- Scrambling code change	Not Present
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

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

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in
·	received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present (Now)
New U-RNTI	,
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC state indicator	CELL_FACH
UTRAN DRX cycle length coefficient	9
Capability update requirement	
 UE radio access FDD capability update 	TRUE
requirement	
 UE radio access TDD capability update 	FALSE
requirement	
 System specific capability update requirement list 	GSM
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not present
- SDU discard mode	Not present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	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
- DL DCH Transport channel identity	10 Not Present
- DL DSCH Transport channel identity	Not Present
 Logical channel identity 	1

Information Element	Value/remark
- 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 - MAC logical channel priority	According to TS34.108 clause 6.10.2.4.4.1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup - RB identity	(AM DCCH for RRC) Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	, <u>-</u>
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	32
- Timer_RST	500
- Max_RST - Polling info	1
- 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 - Timer_poll_periodic	99 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 - Timer_STATUS_periodic	TRUE Not Present
- RB mapping info	NOT LESCH
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
Logical channel identity CHOICE RLC size list	2 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 RLC logical channel mapping indicator	2 Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1
- MAC logical channel priority - Downlink RLC logical channel info	2
Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH

Information Element	Value/remark
- 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 - CHOICE Uplink RLC mode	RLC info AM RLC
- Transmission RLC discard	AIVI NEC
- 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_poil_ - Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99 Not Brown
- Timer_poll_periodic - CHOICE Downlink RLC mode	Not Present 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 - RB mapping info	Not Present
- 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 Configured
- CHOICE RLC size list - MAC logical channel priority	3
- 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	10
- DL DSCH Transport channel identity	Not Present
Logical channel identity RLC logical channel mapping indicator	3 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 - MAC logical channel priority	According to TS34.108 clause 6.10.2.4.4.1
- MAC logical channel phonty - Downlink RLC logical channel info	J
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(AM DCCH for NAS DT Low priority)
Signalling RB information to setup - RB identity	(AM DCCH for NAS_DT Low priority) 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

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Information Element	Value/remark
- Timer_RST	500
- Max_RST	1
- Polling info	000
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	32
- Downlink RLC status info	200
- Timer_status_prohibit	200 Not Present
- Timer_EPC	Not Present TRUE
- Missing PDU indicator	Not Present
- Timer_STATUS_periodic	Not Present
 RB mapping info Information for each multiplexing option 	2 DDM:wOntions
- RLC logical channel mapping indicator	2 RBMuxOptions Not Present
Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
	4
- Logical channel identity - CHOICE RLC size list	
	Configured 4
MAC logical channel priority Downlink RLC logical channel info	
Number of downlink RLC logical channels	1
Downlink transport channel type	DCH
- DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
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
OTEO	signalling radio bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone
D	13.6 kbps signalling radio bearer)
- Power offset information	Computed Coin Fosters (The lest TEO is set to Disc. II. I
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled Gain Factors)
	Sain i acioisj

Information Floreaut	Valuatramant
Information Element	Value/remark
- Gain factor ßc	11 (below 64 kbps)
	9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain
	Factors)
- Gain factor ßd	15
	(Not Present if the above is set to Computed Gain
	Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required
3	when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	Dedicated transport charmers
- BLC Size	Value 16 regults in an DLC size of 144 hits.
- RLC Size	Value 16 results in an RLC size of 144 bits;
November of TD- and TTI List	OctetModeType1 ((8*sizeType1)+16).
- Number of TBs and TTI List	List with single entry
- Transmission Time Interval	Not Present
- Number of Transport blocks	0
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	40 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	160
- CRC size	16
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required
3	when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured DL TrCH information	, ,
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
- Uplink Transport channel type	DCH
- UL TrCH identity	5
- DCH quality target	Not Present
Frequency info	Not present
Maximum allowed UL TX power	
CHOICE channel requirement	Not present
	Not Present
Downlink information common for all radio links	Not Present
Downlink information for each radio link list	Not present

Contents of RRC CONNECTION SETUP COMPLETE message: $\ensuremath{\mathsf{AM}}$

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message.
START list	Not checked
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of 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

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 MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the
- RRC Message Sequence Number		most significant bit of the MAC-I. Set to an arbitrarily selected integer between 0 and 15
Security capability		
- Ciphering algorithm capability		
- UEA0		If the UE has indicated support for ciphering
- UEA1		algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. If the UE has indicated support for ciphering
		algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.
- Spare - Integrity protection algorithm capability		Spare 2-15 = FALSE 00000000000000010B (UIA1)
- UIA1 - Spare		TRUE
- Spare Ciphering mode info		Spare 0 and Spare 2-15 = FALSE This presence of this IE is dependent on IXIT
Cipiteting mode into		statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else,
Ciale asia a suce de la comune de d		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 Radio bearer downlink ciphering activation time info		Not Present
- Radio bearer activation time		
- RB identity		1
- RLC sequence number		Current RLC SN+2
- RB identity		2
- RLC sequence number - RB identity		Current RLC SN+2
- RLC sequence number - RB identity		Current RLC SN + 2
- RLC sequence number Integrity protection mode info		Current RLC SN + 2
- Integrity protection mode command		Start
- Downlink integrity protection activation info		Not Present
- Integrity protection algorithm		UIA1
- Integrity protection initialisation number		SS selects an arbitrary 32 bits number for FRESH.
		The first/ leftmost bit of the bit string contains the most significant bit of the FRESH.
CN domain identity		CS or PS
UE system specific security capability	A1	Not Present
UE system specific security capability	A2	
- Inter-RAT UE security capability		
- CHOICE system		GSM
- GSM security capability		The indicated algorithms must be the same as
		the algorithms supported by the UE as
		indicated in the IE " UE system specific
		capability " in the RRC CONNECTION SETUP COMPLETE message.

Condition	Explanation
A1	UE not supporting GSM
A2	UE supporting GSM

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in SECURITY MODE COMMAND message, this IE must be absent. Else, SS checks this IE for the presence of activation times for all ciphered uplink RLC-UM and RLC-AM RBs.

Contents of 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
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	
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3,	Not Present
	A4, A5, A6	
RRC State indicator	A1, A2, A3,	CELL_DCH

Information Element	Condition	Value/remark
	A4	
RRC State indicator	A5, A6	CELL FACH
UTRAN DRX cycle length coefficient	A1, A2, A3,	Not Present
, ,	A4,A5,A6	
CN information info		Not Present
URA identity		Not Present
Downlink counter synchronisation info		Not Present
UL Transport channel information for all transport	A1, A2, A5,	Not Present
channels	A6	
UL Transport channel information for all transport	A3, A4	
channels		
- PRACH TFCS		Not Present
- CHOICE mode		FDD
- TFC subset		Not Present
- UL DCH TFCS		Name
- CHOICE TFCI signalling		Normal
- TFCI Field 1 information - CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure information		Complete reconfiguration
- CHOICE CTFC Size		Number of bits used must be enough to cover
- GHOIGE GTI G SIZE		all combinations of CTFC from TS34.108
		clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		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
Deference TEC ID		to ComputedGain Factors)
- Reference TFC ID - CHOICE mode		0 FDD

- Power offset P p-m	A1 A2 A5	Not Present
Added or Reconfigured UL TrCH information	A1, A2, A5, A6	Not Present
	l vo	

Information Element	Condition	Value/remark
Added or Reconfigured UL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Uplink transport channel type		DCH
- UL Transport channel identity		5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		D (
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
·		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		D (T004 400
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
Type of charmer county		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
, and the second		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
CDC size		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
- Uplink transport channel type		Set DCH
- UL Transport channel identity		1
- TFS		·
- CHOICE Transport channel type		Dedicated transport channels
 Dynamic Transport format information 		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List		Set
- Transmission Time Interval		(This IE is repeated for TFI number.) Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
gramig rand		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
000 :		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
Added or Reconfigured UL TrCH information	A3	Set (DCH for DTCH)
- Uplink transport channel type	73	DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		Deference to T024 400 -laws - 0.40 Days
- 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
- Hansinission line interval		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
. , , , : - : : : : : : : : : : : : :		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set

Information Element	Condition	Value/remark
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
CHOICE mode	A1,A2,A3,	FDD
	A4,A5,A6	
- CPCH set ID		Not Present
- Added or Reconfigured TrCH		Not Present
information for DRAC list		=
DL Transport channel information common for all	A1, A2,	Not Present
transport channel	A5,A6	
DL Transport channel information common for all	A3,A4	
transport channel		Not Decemb
- SCCPCH TFCS		Not Present FDD
- CHOICE DI parameters		1
- CHOICE DL parameters - DL DCH TFCS		Explicit
- CHOICE TFCI Signalling		Normal
- TFCI Field 1 Information		Noma
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure		Complete recomingulation
- CHOICE CTEC 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,	Not Present
	A6	

Information Element	Condition	Value/remark
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Downlink transport channel type	*	DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
 Uplink transport channel type 		DCH
- UL TrCH identity		5
- DCH quality target		N / P
- BLER Quality value		Not Present
Downlink transport channel type DL Transport channel identity		DCH 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		Net Descript
- Transmission Time Interval		Not Present Reference to TS34.108 clause 6.10 Parameter
- Number of Transport blocks		Set
- Semi-static Transport Format information		Set
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
Transmission time interval		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
j		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
000 :		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
- DCH quality target		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 (T004 400 L
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List		Set (This IE is repeated for TFI number.)
- Dynamic transport format information		(This is repeated for TFT humber.)
- 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
Coding Data		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
- Itale matering attribute		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- DCH quality target		
- BLER Quality value		-2.0
Frequency info	A1,A2,A3,	
	A4,A5	
- UARFCN uplink (Nu)		Reference to clause 5.1 Test frequencies
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies
Frequency info Maximum allowed UL TX power	A6 A1,A2,A3,	Not Present
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33dBm

Information Element	Condition	Value/remark
	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 - TPC step size		Algorithm1
- Scrambling code type		Long
- Scrambling code type - Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
-p. c. a.a		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	
- Downlink PDSCH information		Not Present
Downlink information common for all radio links	A5, A6	Not Present
Downlink information common for all radio links	A1, A2, A3	
- Downlink DPCH info common for all RL		Maintain
- Timing indicator		Maintain Not Present
- CFN-targetSFN frame offset - Downlink DPCH power control information		Not Present
- 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
DDO!		Set
- DPCH compressed mode info		Not Present
- TX Diversity mode - SSDT information		None
- SSDT Information - Default DPCH Offset Value		Not Present Not Present
Downlink information common for all radio links	A4	Not i lesent
- Downlink DPCH info common for all RL	/ \¬	
- Timing indicator		Initialise
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P _{Pilot-DPDCH}		0
 DL rate matching restriction information 		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
TECL evieters s		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
CHOICE SE		Set Peteropee to TS34 108 clause 6 10 Parameter
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info		Set Not Present
- DPCH compressed mode info - TX Diversity mode		Not Present
- SSDT information		Not Present
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step of 512
Boldak Di Oli Olisot Value	<u> </u>	Albitrary Set to value of Subouded by Step 01 312

Information Element	Condition	Value/remark
Downlink information for each radio link list	A1, A2, A3	
- Downlink information for each radio links		
- CHOICE mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		THOU TOOSIN
- Primary CPICH usage for channel estimation		Primary CPICH may be used
- DPCH frame offset		Set to value Default DPCH Offset Value (as
Di di i italic disci		currently stored in SS) mod 38400
- Power offset P _{Pilot-DPDCH}		0
- Secondary CPICH info		Not Present
- DL channelisation code		Not Fresent
		4
- Secondary scrambling code		· ·
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Code number		O No observe
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
 Closed loop timing adjustment mode 		Not Present
- SCCPCH information for FACH		Not Present
Downlink information for each radio link list	A4	
- Downlink information for each radio links		
- CHOICE mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		
- Primary CPICH usage for channel estimation		Primary CPICH may be used
- DPCH frame offset		Set to value: Default DPCH Offset Value mod
		38400
- Power offset P _{Pilot-DPDCH}		0
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		4
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
Sproading ractor		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
		Not Present
- Closed loop timing adjustment mode		Not Present Not Present
- SCCPCH information for FACH	Λ <i>E</i>	INOU FIESEIIL
- Downlink information for each radio link	A5	EDD
- Choice mode		FDD
- Primary CPICH info		D () D (T00
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not present
- SCCPCH information for FACH		Not Present
- Downlink information for each radio link	A6	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 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	FDD
DPCH/PUSCH TFCS in Uplink	
- CHOICE Subset representation	Allowed transport format combination list
 Allowed Transport format combination 	0 (The TFC is constructed from ALL TF0)
Activation time for TFC subset	Not Present
TFC Control duration	Not Present

Contents of UE CAPABILITY ENQUIRY message: AM or UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- 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 list	Not Present

Contents of UE CAPABILITY INFORMATION message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
UE radio access capability	Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings
 Access stratum release indicator PDCP Capability RLC Capability Transport channel capability RF Capability FDD 	
- RF Capability TDD - Physical channel capability - UE multi-mode/multi-RAT capability - Security Capability	
- UE positioning Capability - Measurement capability	
UE radio access capability extension	Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings
UE system specific capability	Not Checked

Contents of UE CAPABILITY INFORMATION CONFIRM message: UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Set to the same value as received in the UE CAPABILITY INFORMATON message.
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message seguence number	SS provides the value of this IF 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 checked

9.1.2 Default RRC Message Contents (TDD)

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	0
Integrity check info	
- 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
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
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)

Information Element	Value/remark
Message Type	Taidon cinai N
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
- RRC message sequence number	contains the most significant bit of the MAC-I. 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.
Circle arise at the address are and	Else, this IE is omitted.
Ciphering mode command Ciphering algorithm	Start/restart Use one of the supported ciphering algorithms
- Ciphering agontim - 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 New DSCH-RNTI	Not Present Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup list	Not Present
RAB information for setup list - RAB information for setup	
- RAB info	
- RAB identity	0000 0001B
•	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 Re-establishment timer	Not Present UseT314
- RB information to setup	0361314
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC Not Present
- Transmission RLC discard - 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 Number of uplink RLC logical channels	Not Present
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
Downlink RLC logical channel info Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	11 Not Present
- PDCP info - CHOICE RLC info type	Not Present RLC info
- CHOICE VEC IIIIO type - CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE

Information Element	Value/remark
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	TALOE
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
 Number of uplink RLC logical channels 	1
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- Logical channel identity - CHOICE RLC size list	Not Present
- MAC logical channel priority	Configured 6
- Downlink RLC logical channel info	0
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 - CHOICE Uplink RLC mode	RLC info TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
 Information for each multiplexing option 	
 RLC logical channel mapping indicator 	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
 UL Transport channel identity Logical channel identity 	3 Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
 DL DCH Transport channel identity 	8
- DL DSCH Transport channel identity	Not Present
- Logical channel identity RB information to be affected list	Not Present
	Not Present
Downlink counter synchronisation info UL Transport channel information for all transport	Not Present
channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
-Individual UL CCTrCH information	
- TFCS ID	(This IE is repeated for TFC number.)
 Allowed Transport Format combination 	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
DDACH TECS	TS34.108 clause 6 Parameter Set.)
- PRACH TFCS - CHOICE TFCI signalling	(This IE is repeated for TFC number.) Normal
- TFCI Field 1 information	Notifial
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover
	all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured LIL TrCH information list	3 DCHs
Added or Reconfigured UL TrCH information Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels

Information Element	Value/remark
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
	Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	
- 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	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	(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	
- 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	(no data)
transport channel	Net Dresent
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- CHOICE DL parameters	Same as UL
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	3 DCHs
Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	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	DCH
- DL Transport channel identity	7
- CHOICE DL parameters	Same as UL
•	

Information Element	Value/remark
- Uplink transport channel type	DCH Value/remark
- 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 UL TrCH identity 	DCH 3
- DCH quality target	3
- BLER Quality value	Not Present
Frequency info	
- UARFCN Nt)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	30dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	TDD (1.1.)
- CHOICE Mode	TDD (no data)
Downlink information common for all radio links - Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD (no data)
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info - CHOICE S <i>yncC</i> ase	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	(250 : CEN (CEN mod 0 : 0)) mod 250
- Activation time - Duration	(256+CFN-(CFN mod 8 + 8))mod 256 infinite
- Duration - Common timeslot info	minite
- 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	
- Individual timeslot info	The number of a downlink times let that has
- Timeslot number	The number of a downlink timeslot that has
- TFCI existence	unassigned codes. TRUE
- Midamble shift and burst type	TROE
-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/SE) where i is the lowest numbered code
- First charmensation 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

Information Element	Value/remark
	Parameter Set could be met by the codes that
	have been assigned in the first timeslot
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present

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

Information Element	Value/remark
Message Type	
RRC transaction identifier	0
Integrity check info	
- 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	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use one of the supported ciphering algorithms
 Ciphering activation time for DPCH 	(256+CFN-(CFN MOD 8 + 8))MOD 256
Radio bearer downlink ciphering activation time info	Not Present
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present

Information Florer	Valuationali
Information Element RRC State indicator	Value/remark
	CELL_DCH Not Present
UTRAN DRX cycle length coefficient CN information info	
URA identity	Not Present Not Present
Signalling RB information to setup	Not Present
RAB information for setup	Not i lesent
- RAB info	
- RAB identity	0000 0101B
TO 10 Identity	The first/ leftmost bit of the bit string contains the most
	significant bit of the RAB identity.
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity	20
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	200
- Timer_poll_prohibit	200
- 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	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
 Timer_status_prohibit 	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	o DDM O C
- Information for each multiplexing option	2 RBMuxOptions
 RLC logical channel mapping indicator Number of uplink RLC logical channels 	Not Present
Number of uplink RLC logical channels Uplink transport channel type	1 DCH
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	8
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
 RLC logical channel mapping indicator 	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	7
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	8
- Downlink RLC logical channel info - Number of downlink RLC logical channels	1
Number of downlink RLC logical channels Downlink transport channel type	1 FACH
- Downlink transport Granner type	INOIT

Information Element	Value/remark
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode -Individual UL CCTrCH information	TDD
- TFCS ID	(This IE is repeated for TFC number.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
7 mowed Transport i official combination	TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover
	all combinations of CTFC from clauses 6.
- 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 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
- 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 - Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE mode	TDD (no data)
DL Transport channel information common for all	(
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- Downlink DPCH info common for all RL	Mointain
- Timing indicator	Maintain Not Present
- CFN-targetSFN frame offset - Downlink DPCH power control information	INULFIESEIL
- CHOICE mode	TDD
- TPC step size	1 dB
- Default DPCH offset value	0
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	
- Added or Reconfigured DL TrCH information	BOLL
- Downlink transport channel type	DCH
- DL Transport channel identity - CHOICE DL parameters	6 Explicit
- CHOICE DL parameters	LAPHOL
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number)
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set

Information Element

- CHOICE Logical Channel list
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- DCH quality target
- BLER Quality value

Frequency info

- -CHOICE mode
- UARFCN (Nt)

Maximum allowed UL TX power CHOICE channel requirement

- Uplink DPCH power control info
- CHOICE mode
 - UL Target SIR
 - CHOICE UL OL PC info
 - Uplink Timing Advance Control
 - UL CCTrCH List
 - TFCS Id
 - Time info
 - Activation time
 - Duration
 - Common timeslot info
 - 2nd interleaving mode
 - TFCI coding
 - Puncturing Limit
 - Repetition Period
 - Repetition Length
 - First individual timeslot info
 - Timeslot number
 - TFCI existence
 - Midamble shift and burst type
 - -CHOICE Burst Type
 - -Type 1
 - -Midamble Allocation Mode
 - Midamble configuration burst

type 1 and 3

- First timeslot channelisation codes
- Channelisation code
- CHOICE more timeslots

Downlink information common for all radio links

- Downlink DPCH info common for all RL
- Timing indicator
- CFN-targetSFN frame offset
- Downlink DPCH power control information
- DPC mode
- CHOICE mode
- Default DPCH Offset Value

Downlink information for each radio link list

- Downlink information for each radio link
 - Choice mode
 - Primary CCPCH info CHOICE SyncCase

 - Timeslot
 - Cell parameters ID
 - SCTD indicator
 - Downlink DPCH info for each RL

ALL

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

Value/remark

-6.3

TDD

Reference to clause 5.1 Test frequencies 30 dBm

Uplink DPCH info

TDD

Reference to TS34.108 Parameter set. Individually signalled

Not Present

(256+CFN-(CFN MOD 8 + 8))MOD 256

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

The number of an uplink timeslot that has unassigned codes.

TRUE

Default

As defined in 3GPP TS 25,221

Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.

(i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set.

The presence of this IE depends upon the number of resources specified in TS34.108 section 6 and the number of slots in which they are being assigned.

Maintain Not Present

0 (single)

TDD (no data)

Not Present

TDD

Sync Case 1 PCCPCH timeslot

Information Element	Value/remark
- 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
	unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-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	(i/CE) whome i is the lowest numbered and
- First channelisation code	(i/SF) where i is the lowest numbered code
	that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set
- Last channelisation code	(j/SF) where j is the highest numbered code
- Last Charmensation code	that is being assigned in the slot.
Pitman	Bitmap of the codes that are being assigned in
- Bitmap	the slot.
	the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether
OFFORE MORE MINOSIGNE	the requirements of TS34.108 clause 6
	Parameter Set could be met by the codes that
	have been assigned in the first timeslot
	see see see see see see see see se
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present
3001 OF INIOINIAUOT IO L'AOT	NOCH 1636HC

Contents of RADIO BEARER SETUP COMPLETE message: AM

Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.
Integrity check info	
- 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
START	Not checked
COUNT-C activation time	The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB establishment procedure. Else, this IE is absent.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER SETUP message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.
Uplink counter synchronisation info	Not checked

Contents of RADIO BEARER RELEASE COMPLETE message: AM

Message Type	
RRC transaction identifier	Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info CHOICE mode	Not checked. TDD
COUNT-C activation time	The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.
Uplink counter synchronisation info	Not checked

Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark	ĺ
Message Type		ĺ
Initial UE identity		ĺ
- CHOICE UE id type		ĺ
- IMSI (GSM-MAP)	Set to the UE's IMSI (GSM-MAP) or TMSI.	ĺ
Establishment cause	To be checked against requirement if specified	ĺ
Protocol error indicator	FALSE	ĺ
UE Specific Behaviour Information 1 idle	This IE will not be checked by default, but in specific test	ĺ
	case	ĺ
Measured results on RACH	Not checked	ĺ

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
Message Type	
U-RNTI	This IE is set to the following value when the message is
	transmitted on the CCCH. When transmitted on DCCH,
	this is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	0
Integrity check info	The presence of this IE depends on 2 factors:
	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
- RRC Message sequence number	contains the most significant bit of the MAC-I. Checked to see if it is present. This number is used by the SS to compute the XMAC-I
Error indication	Not checked

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

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier	0
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not Present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	
 UE radio access FDD capability 	FALSE
update requirement	
- UE radio access TDD capability	TRUE
update requirement	
- System specific capability update requirement list	GSM

Information Floresus	Voluelramanla
Information Element	Value/remark
Signalling RB information to setup	(UM DCCH for RRC)
RB identityCHOICE RLC info type	Not Present
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
Transmission RES distard	Tiot i room
- 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 Downlink RLC logical channel info 	1
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	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 DL DCH Transport channel identity 	FACH Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
Transmission window size	130
- Transmission window size	128
- Timer_RST	500
- Max_RST - Polling info	1
- Folling into - Timer_poll_prohibit	200
- Timer_poll - Timer_poll	200
- Poll PDU	Not present
1 011_1 00	Hot prodont

Information Element	Value/remark	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Window	99	
- Ton_window - Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info	120	
- Timer_status_prohibit	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
- Timer_STATUS_periodic	Not Present	
- RB mapping info	110111000111	
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	2	
- CHOICE RLC size list	Configure	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	2	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	2	
- CHOICE RLC size list	Explicit List	
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps	
1120 0.20 mgo/	signalling radio bearer	
- MAC logical channel priority	2	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	FACH	
- DL DCH Transport channel identity	Not Present	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	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	200	
- Poll PDU	Not present	
· •·· <u>-</u> · = •		

Information Element	Value/remark	
- Poll_SDU	1	
- Last transmission PDU poll	TRUE	
- Last retransmission PDU poll	TRUE	
- Poll_Windows	99	
- Timer_poll_periodic	Not Present	
- CHOICE Downlink RLC mode	AM RLC	
- In-sequence delivery	TRUE	
- Receiving window size	128	
- Downlink RLC status info		
 Timer_status_prohibit 	200	
- Timer_EPC	Not Present	
- Missing PDU indicator	TRUE	
 Timer_STATUS_periodic 	Not Present	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	3	
- CHOICE RLC size list	Configured	
 MAC logical channel priority 	3	
 Downlink RLC logical channel info 		
 Number of RLC logical channels 	1	
 Downlink transport channel type 	DCH	
 DL DCH Transport channel identity 	10	
 DL DSCH Transport channel identity 	Not Present	
 Logical channel identity 	3	
 RLC logical channel mapping indicator 	Not Present	
 Number of RLC logical channels 	1	
 Uplink transport channel type 	RACH	
 UL Transport channel identity 	Not Present	
 Logical channel identity 	3	
- CHOICE RLC size list	Explicit List	
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps	
	signalling radio bearer	
 MAC logical channel priority 	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	
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	
Transmississississississ	400	
- Transmission window size	128	
- Timer_RST	500	
- Max_RST	1	
- Polling info	000	
- Timer_poll_prohibit	200	
- Timer_poll	200	
- Poll_PDU	Not present	

Information Element	Value/remark
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	2 PPMuyOntions
- Information for each multiplexing option	2 RBMuxOptions Not Present
- RLC logical channel mapping indicator	1
 Number of RLC logical channels Uplink transport channel type 	DCH
 UL Transport channel identity Logical channel identity 	5 4
- 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
- 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 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	(This IF is now a start for TFO many)
- TFCS ID	(This IE is repeated for TFC number.)
 Allowed Transport Format combination 	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
DD ACH TECS	TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.) Normal
- CHOICE TFCI signalling - TFCI Field 1 information	Normal
- TFCS complete reconfigure	
information	
- CHOICE TFCS Size	Number of used bits must be enough to cover
0110102 11 00 0120	all combinations of CTFC from clauses 6.
	Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
 UL Transport channel identity 	5
- TFS	

Information Element

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

DL Transport channel information common for all transport channel

- SCCPCH TFCS
- CHOICE mode
- CHOICE DL parameters

Added or Reconfigured TrCH information list

- Added or Reconfigured DL TrCH information
 - Downlink transport channel type
 - DL Transport channel identity
 - CHOICE DL parameters
 - Uplink transport channel type
 - UL Transport channel identity
 - -DCH quality target
 - BLER Quality target

Frequency info

Maximum allowed UL TX power

HOICE channel requirement

- Uplink DPCH power control info
- CHOICE mode
- UL Target SIR
- CHOICE UL OL PC info
- Uplink Timing Advance Control
- UL CCTrCH List
 - TFCS Id
 - Time info
 - Activation time
 - Duration
 - Common timeslot info
 - 2nd interleaving mode
 - TFCI coding
 - Puncturing Limit
 - Repetition Period
 - Repetition Length
 - First individual timeslot info
 - Timeslot number
 - TFCI existence
 - Midamble shift and burst type
 - -CHOICE Burst Type
 - -Type 1
 - -Midamble Allocation Mode
 - Midamble configuration burst

type 1 and 3

- First timeslot channelisation codes

Dedicated transport channels

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

Value/remark

(This IE is repeated for TFI number)

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer

Not Present

TDD

Same as UL

DCH

10

Same as UL

DCH

5

-6.3

Not Present Not Present

Uplink DPCH info

TDD

Reference to TS34.108 Parameter set.

Individually signalled

Not Present

1

(256+CFN-(CFN MOD 8 + 8))MOD 256

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

Reference to TS34.108 clause 6.10 Parameter Set

Reference to TS34.108 clause 6.10 Parameter Set

Reference to TS34.108 clause 6.10 Parameter Set

The number of an uplink timeslot that has unassigned codes.

TRUE

Default

As defined in 3GPP TS 25.221

Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.

Information Element	Value/remark
- Channelisation code	(i/SF) where i denotes an unassigned code
Chambadali oodo	matching the SF specified in TS34.108 clause
	6 Parameter Set.
- CHOICE more timeslots	The presence of this IE depends upon the
STICIOL IIIO MINOSIOLO	number of resources specified in TS34.108
	section 6 and the number of slots in which they
	are being assigned.
Downlink information common for all radio links	3
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD (no data)
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	(050 · 05N (05N ··· - d 0 · 0)\··· - d 050
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
- Common timeslot info	Poforonce to TS24 108
- 2nd interleaving mode	Reference to TS34.108 TRUE
- TFCI coding - Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Puncturing limit - Repetition period	1
- Repetition period - Repetition length	Empty
- Downlink DPCH timeslots and codes	Linety
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has
	unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	
- First timeslot channelisation codes	
- 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
	Not Present
-SCCPCH information for FACH	Not Present

Contents of RRC CONNECTION SETUP COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message.
START list	Not checked
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of SECURITY MODE COMMAND message: AM

Information Element	Condition	Value/remark
Message Type	A1, A2	
RRC transaction identifier	1	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 ciphering is not indicated to be active on IXIT
		statements in TS 34.123-2, set this IE to TRUE.
- UEA1		If ciphering is indicated to be active on IXIT
		statements in TS 34.123-2, set this IE to TRUE.
- Spare		FALSE
 Integrity protection algorithm 		000000000000010B (UIA1)
capability		·
- UIA1		TRUE
- Spare		FALSE
Ciphering mode info		This presence of this IE is dependent on IXIT
		statements in TS 34.123-2. If ciphering is
		indicated to be active, this IE present with the
		values of the sub IEs as stated below. Else, this
		IE is omitted.
- Ciphering mode command		Start/restart
- Ciphering algorithm		Use the same ciphering algorithm specified in
		"ciphering algorithm capability" IE in this
		message.
 Ciphering activation time for DPCH 		Not Present
- Radio bearer downlink ciphering		
activation time info		
- Radio bearer activation time		
- RB identity		1
- RLC sequence number		Current RLC SN+2
- RB identity		2
- RLC sequence number		Current RLC SN+2
- RB identity		3
- RLC sequence number		Current RLC SN + 2
- RB identity		4
- RLC sequence number		Current RLC SN + 2
Integrity protection mode info		
 Integrity protection mode command 	1	Start
 Downlink integrity protection 		Not Present
activation info		
 Integrity protection algorithm 		UIA1
- Integrity protection initialisation		SS selects an arbitrary 32 bits number for
number		FRESH.
		The first/ leftmost bit of the bit string contains the
		most significant bit of the FRESH.
CN domain identity	1	Supported domain
UE system specific security capability	A1	Not Checked
UE system specific security capability	A2	
- Inter-RAT UE security capability		
- CHOICE system		GSM
- GSM security capability		The indicated algorithms must be the same as the
		algorithms supported by the UE as indicated in
		the IE " UE system specific capability " in the RRC
		CONNECTION SETUP COMPLETE message.

Condition	Explanation
A1	UE not supporting GSM
A2	UE supporting GSM

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in SECURITY MODE COMMAND message, this IE must be absent. Else, SS checks this IE for the presence of activation times for all
	ciphered uplink RLC-UM and RLC-AM RBs.

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
CN domain identity	Checked to see if set to supported CN domain as specified in the IXIT statements
NAS message	Set according to that indicated in specific message content clause
Measured results on RACH	Not checked

9.2 Default Message Contents for RF

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2kbps, the DL reference measurement channel for BTFD, UE test loop mode 1 without Dummy DCCH transmission and UE test loop mode 2 with Dummy DCCH transmission are set to default message contents.

9.2.1 Default Message Contents for RF (FDD)

Contents of Activate RB Test Mode message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	44h

Contents of Close UE Test Loop message (UE test loop mode 1 without Dummy DCCH transmission)

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

Contents of Close UE Test Loop message (UE test loop mode 2 without Dummy DCCH transmission)

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	01h

Contents of Open UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	42h

Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
 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)

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 admentication code	message and writes to this IE. The first/
	leftmost bit of the bit string contains the most
	significant bit of the MAC-I.
- RRC message sequence number	SS provides the value of this IE, from its
	internal counter.
Integrity protection mode info Ciphering mode info	Not Present Not Present
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info URA identity	Not Present 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
- CN domain identity	the most significant bit of the 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 - CHOICE RLC info type	Not Present 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 - CHOICE RLC size list	Not Present Configured
- CHOICE RLC Size list - MAC logical channel priority	Configured 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 Not Present
- Logical channel identity RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD
- TFC subset	Not Present
- UL DCH TFCS - CHOICE TFCI signalling	Normal
- TFCI Field 1 information	T.G.I.IIdi
- CHOICE TFCS representation	Complete reconfiguration
1 *** ****	· · · · · · · · · · · · · · · · · · ·

Information Element	Value/remark
- TFCS complete reconfigure information	rataonoman
- CHOICE CTFC Size	2 bit CTFC
- CTFC information	4 TFCs
- 2bit CTFC	0
- Power offset Information	
- CHOICE Gain Factors	Computed Gain Factors
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset P _{p-m}	Not Present
- 2bit CTFC	2
- Power offset Information	
- CHOICE Gain Factors	Computed Gain Factors
- Reference TFC ID	0
- CHOICE mode - Power offset P _{p-m}	FDD Not Present
- Power onset F _{p-m} - 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	3
- Power offset Information	
- CHOICE Gain Factors	Signalled Gain Factors
- CHOICE mode	FDD
- Gain factor ßc	8
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset P _{p-m} Deleted UL TrCH information list	Not Present 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	244 bits
- Number of TBs and TTI List	2
- Transmission Time Interval	Not Present
- Number of Transport blocks	0 Net Brooks
- Transmission Time Interval	Not Present
Number of Transport blocks CHOICE Logical Channel List	1 ALL
- Semi-static Transport Format Information	ALL
- Transmission time interval	20
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	256
- CRC size	16
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	Not Propert
- SCCPCH TFCS - CHOICE mode	Not Present FDD
- CHOICE Mode - CHOICE DL parameters	Same as UL
Deleted DL TrCH information list	Not Present
Added or Reconfigured DL TrCH information list	1
- Added or Reconfigured DL TrCH information	·
- Downlink transport channel type	DCH
- DL Transport channel identity	6
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH

Information Element	Value/remark
- 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 - PC Preamble	-6dB 1 frame
- SRB delay	7 frames
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- CHOICE mode	FDD
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	1
- spreading factor	64
- TFCI existence	TRUE
- Number of FBI bit	Not Present(0)
- Puncturing Limit	1
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	Not i resent
- 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	128
- Fixed or Flexible Position	Fixed
- TFCI existence	TRUE
- CHOICE SF - Number of bits for Pilot bits	128 8
- CHOICE mode	FDD
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for per radio link list	
- Downlink information for each radio link	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present 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	128
- Code number	96
- Scrambling code change	No change
- TPC combination index	0 Not Present
- SSDT Cell Identity	Not Present Not Present
Closed loop timing adjustment mode SCCPCH information for FACH	Not Present
- JOOL OF HINOHIIAMON TO FAOT	1101 1030 1

Contents of RADIO BEARER SETUP message: AM or UM (UE supports PS RAB only)

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.
Integrity protection mode info	Not Present
Ciphering mode info	Not Present
Activation time	Not Present
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
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	
- RAB information for setup	
- RAB info	(AM DTCH for PS domain)
- RAB identity	0000 0101B
	The first/ leftmost bit of the bit string contains
	the most significant bit of the RAB identity.
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	useT315
- RB information to setup	
- RB identity	20
- PDCP info	541.05
- Support for lossless SRNS relocation	FALSE
- Max PDCP SN window size	Not present
- PDCP PDU header	Absent
- Header compression information	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	No Discord
- CHOICE SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST - Polling info	7
- Polling into - Timer_poll_prohibit	200
- Timer_poii_profilbit - Timer_poll	200
- Hiller_poil - Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Ton_windows - Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
Number of uplink RLC logical channels	1
S. Spinit (LD logical bliatilion	1. *

Information Element	Value/remark
- 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 CHOICE RLC size list	
- RLC size index	Explicit list Reference to TS34.108 clause 6 Parameter
- NEC Size ilidex	Set
- MAC logical channel priority	8
- Downlink RLC logical channel info	0
Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	North and filter or advanced by a consult to account
- 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
- CTI C IIIIOTTIALIOTI	reference to TS34.108 clause 6.10.2.4
	Parameter Set
- CTFC	Reference to TS34.108 clause 6.10.2.4
0110	Parameter Set
- Power offset information	. s.s.motor cot
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Signalled Gain Factors)
- Gain factor βc	11 (below 64 kbps)
·	9 (higher than 64 kbps) (Not Present if the
	CHOICE Gain Factors is set to Computed
	Gain Factors)
- Gain factor βd	15
	(Not Present if the CHOICE Gain Factors is set
	to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset P p-m	Not Present
Deleted UL TrCH information list	Not Present
Added or Reconfigured UL TrCH information list	1 A DOLL added A DOLL reconfigured
Added or Reconfigured UL TrCH information	1 DCH added, 1 DCH reconfigured
- Uplink transport channel type	DCH
- UL Transport channel identity- TFS	'
- CHOICE Transport channel type	Dedicated transport channels
- Onotice Transport charmer type - Dynamic Transport format information	Dedicated transport cridiffiels
י באוווייטוווי די באוויטווויס איוויסווויס די באוויסווויס די באוויסווייס די באוויסווייס די באוויסוויס די באוויסוויס	

	Value/remark
Information Element - RLC Size Reference	ce to TS34.108 clause 6.10 Parameter
Set	se to 1004.100 clause of 101 arameter
• • •	is repeated for TFI number.)
- Transmission Time Interval Not Pres	
	ce to TS34.108 clause 6.10 Parameter
Set	
- CHOICE Logical Channel list All	
- Semi-static Transport Format information	
- Transmission time interval Reference Set	ce to TS34.108 clause 6.10 Parameter
	ce to TS34.108 clause 6.10 Parameter
- Type of charmer coding Reference Set	ce to 1554.106 clause 6.10 Parameter
	ce to TS34.108 clause 6.10 Parameter
Set	
- Rate matching attribute Reference	ce to TS34.108 clause 6.10 Parameter
Set	
	ce to TS34.108 clause 6.10 Parameter
Set	
- Uplink transport channel type DCH	
- UL Transport channel identity 5	
- TFS	al transport about all
- CHOICE Transport channel type Dedicate - Dynamic Transport format information	d transport channels
	ce to TS34.108 clause 6.10 Parameter
Set	se to 1004.100 clause 0.101 drameter
	is repeated for TFI number.)
- Transmission Time Interval Not Presi	
	ce to TS34.108 clause 6.10 Parameter
Set	
- CHOICE Logical Channel list All	
- Semi-static Transport Format information	
	ce to TS34.108 clause 6.10 Parameter
Set Paris and all and the second sections	t- T004 400 -l 0 40 D
- Type of channel coding Reference Set	ce to TS34.108 clause 6.10 Parameter
	ce to TS34.108 clause 6.10 Parameter
Set	se to 100 made circ i diameter
- Rate matching attribute Reference	ce to TS34.108 clause 6.10 Parameter
Set	
	ce to TS34.108 clause 6.10 Parameter
Set	
CHOICE mode FDD	
- CPCH set ID - Added or Reconfigured TrCH information for DRAC Not Presi	
list	ent
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS Not Pres	ent
- CHOICE mode FDD	
- CHOICE DL parameters Explicit	
- DL DCH TFCS	
- CHOICE TFCI Signalling Normal	
- TFCI Field 1 Information	
	e reconfiguration
- TFCS complete reconfigure - CHOICE CTFC Size Number	of bits used must be enough to cover
	inations of CTFC from clause
	8 clause 6.10.2.4 Parameter Set.
	s repeated for TFC numbers and
	e to TS34.108 clause 6.10.2.4
	ce to TS34.108 clause 6.10.2.4
Paramete	
- Power offset information Not Presi	ent
Added or Reconfigured DL TrCH information list 1	
	(DCH for DCCH and DCH for DTCH)
- Downlink transport channel type DCH	
- DL Transport channel identity 10	

Information Flowers	Value/remark
Information Element	
- CHOICE DL parameters	Same as UL
 Uplink transport channel type UL TrCH identity 	DCH 5
- DCH quality target	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
- DCH quality target - 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	,
- 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
OHOLOE Land LOUIS AND AND A	Set
- CHOICE Logical Channel list	All
Semi-static Transport Format information Transmission time interval	Peteropee to TC24 100 eleves 6 10 Perezestes
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter
- Type of Granner County	Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter
Coding Nato	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	Not Present
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	FDD
- CHOICE mode	FDD
DPCCH power offsetPC Preamble	-6dB 1 frame
- SRB delay	7 frames
- SNB delay - Power Control Algorithm	Algorithm1
- TPC step size	1dB
- CHOICE mode	FDD
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	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 information common for all radio links	
- Downlink DPCH info common for all RL	Mointain
- Timing indicator- CFN-targetSFN frame offset	Maintain Not Present
- Downlink DPCH power control information	INOUT I GOGIIL
- 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	Reference to TS34.108 clause 6.10 Parameter
• •	Set
	,
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter
- Fixed or Flexible Position- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter

Information Element	Value/remark
	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 for per radio link list	
- Downlink information for each radio link	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- CHOICE mode	FDD
 Primary CPICH usage for channel estimation 	Primary CPICH may be used
- DPCH frame offset	Set to value Default DPCH Offset Value (as
	currently stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
 Secondary scrambling code 	Not present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter
	Set
- Code number	Depends upon radio bearer used.
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
 Closed loop timing adjustment mode 	Not Present
- SCCPCH information for FACH	Not Present

Contents of RADIO BEARER SETUP message: BTFD RMC

Information Element	Value/remark
Message Type RRC transaction identifier	Arbitrarily colocts on integer between 0 and 2
	Arbitrarily selects an integer between 0 and 3
Integrity check info - message authentication code	SS calculates the value of MAC-I for this message
- message admentication code	and writes to this IE. The first/ leftmost bit of the bit
	string contains the most significant bit of the MAC-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
O: 1 ·	IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
 Ciphering algorithm Ciphering activation time for DPCH 	Use one of the supported ciphering algorithms
Radio bearer downlink ciphering activation time	Set by operator Not Present
info	Not i lesent
Activation time	Set by operator
New U-RNTI	Not Present
New C-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup	Not Present
RAB information for setup	
- RAB info	0000 0001B
- RAB 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	
- 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 - Segmentation indication	TM RLC FALSE
- RB mapping info	TALOL
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
 Number of uplink RLC logical channels 	1
- Uplink transport channel type	DCH
 UL Transport channel identity 	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	1
 Number of downlink RLC logical channels Downlink transport channel type 	1 DCH
DOWNINK transport channel type DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
RB information to be affected	Not Present
Downlink counter synchronisation info	Not Present
,	RMC for BTFD
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD

Information Flowant	Valuatramant
Information Element	Value/remark
- TFC subset - UL DCH TFCS	Not Present
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Normal
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	Complete reconfiguration
- CHOICE CTFC Size	ctfc6Bit
- ctfc6Bit	22
- ctfc6	0
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	11
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	1
-powerOffsetInformation(OP)	ComputedCainFactors
-gainFactorInformation - Reference TFC ID	ComputedGainFactors 0
- Reference TPC ID	12
- ctico -powerOffsetInformation(OP)	16
-gainFactorInformation	SignalledGainFactors
-modeSpecificInfo	Fdd
-fdd	
- 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)	10.10.5
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID - ctfc6	3
- ctico -powerOffsetInformation(OP)	3
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	14
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	4
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	15
-powerOffsetInformation(OP)	10 10 15 1
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6 -powerOffsetInformation(OP)	5
-powerOnsettmormation(OP) -gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	16
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	6
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0

Information Element	Value/remark
- ctfc6	17
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	7
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	18
-powerOffsetInformation(OP)	0 10 5
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	8
- ctfc6 -powerOffsetInformation(OP)	0
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	19
-powerOffsetInformation(OP)	10
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	
- ctfc6	9
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	20
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	10
-powerOffsetInformation(OP)	Operation of Operations
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID - ctfc6	21
- cuco -powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	
Added or Reconfigured UL TrCH information	
-ul-AddReconfTransChInfoList	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
-DedicatedDynamicTF-Info	
RLC size	256
-numberOfTbSizeList	
-NumberOfTransportBlocks	Zero
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	216
-numberOfTbSizeList	One
-NumberOfTransportBlocks	One
RLC size	171
- Choice Logical Channel List	ALL
-numberOfTbSizeList	One
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL 160
RLC size	160
-numberOfTbSizeList -NumberOfTransportBlocks	One
	ALL
- Choice Logical Channel List RLC size	
-numberOfTbSizeList	146
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
- Official English Chariffer List	/ \LL

Information Flowant	Valualramark
Information Element	Value/remark
RLC size -numberOfTbSizeList	130
-NumberOfTransportBlocks	one
	one
- Choice Logical Channel List	ALL
RLC size	115
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	107
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	51
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	12
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
-Semistatic Transport Format Information	
-Transmission Time interval	20 ms
-channelCodingType	Convolutional
-convolutional	1/3
- Rate matching attribute	256
- CRC size	0
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Explicit
- DL DCH TFCS - CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Normal
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	Complete reconliguration
- CHOICE CTFC Size	Ctfc6Bit
- ctfc6Bit	20
- ctfc6	9
- ctfc6	19
- ctfc6	10
- ctfc6	1
- ctfc6	11
- ctfc6	2
- ctfc6	12
- ctfc6	3
- ctfc6	13
- ctfc6	4
- ctfc6	14
- ctfc6	5
- ctfc6	15
- ctfc6	6
- ctfc6	16
- ctfc6	7
- ctfc6	17
- ctfc6	8
- ctfc6	18
Deleted DL TrCH information	Not Present
Added or Reconfigured DL TrCH information	Not Present
	1
Added or Reconfigured DL TrCH information	

Information Element	Valuatramant
	Value/remark
- CHOICE DL parameters	Explicit
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
-DedicatedDynamicTF-Info	244
RLC size -numberOfTbSizeList	244
-NumberOfTransportBlocks	One
- Choice Logical Channel List RLC size	ALL 204
-numberOfTbSizeList	204
-NumberOfTransportBlocks	One
RLC size	159
- Choice Logical Channel List	ALL
-numberOfTbSizeList	ALL
-NumberOfTransportBlocks	One
	ALL
- Choice Logical Channel List RLC size	148
-numberOfTbSizeList	140
-NumberOfTransportBlocks	One
	ALL
- Choice Logical Channel List RLC size	134
-numberOfTbSizeList	134
-NumberOfTransportBlocks	one
	ALL
- Choice Logical Channel List RLC size	118
-numberOfTbSizeList	110
-NumberOfTransportBlocks	one
·	ALL
- Choice Logical Channel List RLC size	103
-numberOfTbSizeList	103
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	95
-numberOfTbSizeList	95
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	39
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	0
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
-Semistatic Transport Format Information	
-Transmission Time interval	20 ms
	Convolutional
-channelCodingType	
-convolutional	1/3
- Rate matching attribute	256
- CRC size	12
- DCH quality target	
- BLER Quality value	-2.0
- Transparent mode signalling info	Not Present
Frequency info	Not Present
Maximum allowed UL TX power	33 dBm Uplink DPCH info
CHOICE channel requirement - Uplink DPCH power control info	Opiilik DECH IIIIO
- Oplink DPCH power control into - DPCCH power offset	0
- PC Preamble	1 frame
- SRB delay	7 frames
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
<u> </u>	

Information Element	Value/remark
- 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 information common for all radio links	i i i i i i i i i i i i i i i i i i i
- Downlink DPCH info common for all RL	FDD
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	THE THOUSEN
- 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	Not i room
- Primary CPICH info	Not Present
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	Not i loom
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently
Di di inamo diloct	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
Soor of Finionnation for Lacit	HOUTESON

Contents of RRC CONNECTION RELEASE message: $\ensuremath{\mathsf{UM}}$

Information Element	Value/remark
Message Type	
U-RNTI	This IE is set to the following value when the message is
	transmitted on the CCCH. When transmitted on DCCH, this
	is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	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 SETUP message: UM

Information Element	Value/remark	
Message Type		
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3	
Activation time	Not Present(Now)	
New U-RNTI		
- SRNC identity	0000 0000 0001B	
- S-RNTI	0000 0000 0000 0000 0001B	
New C-RNTI	Not Present	
RRC State Indicator	CELL_DCH	
UTRAN DRX cycle length coefficient	9	
Capability update requirement		
- UE radio access FDD capability update	TRUE	
requirement		
- UE radio access TDD capability update	FALSE	
requirement		
- System specific capability update requirement list	Gsm	
Signalling RB information to setup list	4 SRBs	
- Signalling RB information to setup	(UM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type	RLC info	
- CHOICE Uplink RLC mode	UM RLC	
- Transmission RLC discard	Not Present	
- CHOICE Downlink RLC mode	UM RLC	
- RB mapping info		
- Information for each multiplexing option	2 RBMuxOptions	
- RLC logical channel mapping indicator	Not Present	
- Number of RLC logical channels	1	
- Uplink transport channel type	DCH	
- UL Transport channel identity	5	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- MAC logical channel priority	1	
- Downlink RLC logical channel info		
- Number of RLC logical channels	1	
- Downlink transport channel type	DCH	
- DL DCH Transport channel identity	10	
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	1	
- RLC logical channel mapping indicator	Not Present	
Number of RLC logical channels	1	
- Uplink transport channel type	RACH	
- UL Transport channel identity	Not Present	
- Logical channel identity	1	
- CHOICE RLC size list	Configured	
- RLC size index	Reference to TS34.108 clause 6 Parameter Set	
- MAC logical channel priority	1	
Downlink RLC logical channel info	j'	
Number of RLC logical channels	1	
Downlink transport channel type	FACH	
	Not Present	
- DL DCH Transport channel identity		
- DL DSCH Transport channel identity	Not Present	
- Logical channel identity	I (AM DOOLL (*** DDO)	
- Signalling RB information to setup	(AM DCCH for RRC)	
- RB identity	Not Present	
- CHOICE RLC info type		
- RLC info		

Information Element	Value/remark
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	Configure d
- CHOICE RLC size list	Configured
MAC logical channel priority Downlink RLC logical channel info	2
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC

Information Element	Value/remark
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- 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
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	AM DI O
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	

Information Element	Value/remark
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	DCH
 Downlink transport channel type DL DCH Transport channel identity 	
· · · · · · · · · · · · · · · · · · ·	Not Present
 DL DSCH Transport channel identity Logical channel identity 	Not Present 4
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal

Information Element	Value/remark
- TFCI Field 1 information	Value/Tellial N
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	Complete reconfiguration
- CHOICE CTFC Size	2 bit CTFC
- CTFC information	2 TFCs
- 2bit CTFC	
- Power offset Information	0
- CHOICE Gain Factors	as mouted Cain Factors
- Reference TFC ID	computedGainFactors
- CHOICE mode	0
- Power offset Pp-m	FDD
- 2bit CTFC	Not Present
- Power offset Information	I
- CHOICE Gain Factors	airmallad Caia Factore
- CHOICE Gain Factors	signalledGainFactors
- Gain factor &c	FDD
- Gain factor ßd	15
- Gain factor isd - Reference TFC ID	15
- Reference TFC ID - CHOICE mode	0
	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information	
	BOLL
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	De directe ditanana est alcana ele
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport Format Information	0011
- RLC size	96 bits
- Number of TBs and TTI List	Net Present
- Transmission Time Interval	Not Present
Number of Transport blocks Transmission Time Interval	0 Not Present
- Number of Transport blocks	NOT Present
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format Information	ALL
- Transmission time interval	40
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	256
- CRC size	12
DL Transport channel information common for all	\ <u>'</u> -
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured DL TrCH information list	1
- Added or Reconfigured DL TrCH information	l'
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	SameasUL
- Uplink transport channel type	DCH
- UL TrCH Identity	5
- DCH quality target	
- BLER Quality value	-2.0
Frequency info	Not Present
Maximum allowed UL TX power	Not Present
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
The second secon	ı

Information Element	Value/remark
- DPCCH power offset	-6dB
- PC Preamble	1 frame
- SRB delay	7 frames
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- CHOICE mode	FDD
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	Not present (1)
- Spreading factor	256
- TFCI existence	TRUE
- Number of FBI bit	
	Not Present(0)
- Puncturing Limit	T .
Downlink information common for all radio links - Downlink DPCH info common for all RL	
	Lateta Para
- Timing Indication	Initialise
- CFN-targetSFN frame offset	Not present
- Downlink DPCH power control information	
- CHOICE mode	FDD
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P Pilot-DPDCH	0
- DL rate matching restriction information	Not Present
- Spreading factor	256
- Fixed or Flexible Position	Fixed
- TFCI existence	FALSE
- CHOICE SF	
- Number of bits for Pilot bits	[8
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for per radio links list	
-Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- CHOICE mode	FDD
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	Not Present
- Spreading factor	256
- 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		
- UEAO		If the UE has indicated support for ciphering
		algorithm UEA0 in the IE "security capability" in
		the RRC CONNECTION SETUP COMPLETE
		message, this IE is set to TRUE.
- UEA1		If the UE has indicated support for ciphering
		algorithm UEA1 in the IE "security capability" in
		the RRC CONNECTION SETUP COMPLETE
		message, this IE is set to TRUE.
- Spare		Spare 2-15 = FALSE
 Integrity protection algorithm capability 		000000000000010B (UIA1)
- UIA1		TRUE
- Spare		Spare 0 and Spare 2-15 = FALSE
Ciphering mode info		This presence of this IE is dependent on IXIT
		statements in TS 34.123-2. If ciphering is
		indicated to be active, this IE present with the
		values of the sub IEs as stated below. Else, this
Cinhavina mada sammand		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		THE THEODING
time info		
- Radio bearer activation time		
- RB identity		1
- RLC sequence number		Current RLC SN+2
- RB identity		2
- RLC sequence number		Current RLC SN+2
- RB identity		3
- RLC sequence number		Current RLC SN + 2
- RB identity		4
- RLC sequence number		Current RLC SN + 2
Integrity protection mode info		
- Integrity protection mode command		Start
- Downlink integrity protection activation		Not Present
info		11104
- Integrity protection algorithm		UIA1
- Integrity protection initialisation number		SS selects an arbitrary 32 bits number for FRESH.
		The first/ leftmost bit of the bit string contains
		the most significant bit of the FRESH.
CN domain identity		CS or PS
UE system specific security capability	A1	Not Present
UE system specific security capability	A2	THE TOOLS
- Inter-RAT UE security capability	/ \ <u>_</u>	
- CHOICE system		GSM
- GSM security capability		The indicated algorithms must be the same as
- Goivi Security Capability		the algorithms supported by the UE as indicated
		in the IE " UE system specific capability " in the
		RRC CONNECTION SETUP COMPLETE
		message.
	1	iniosougo.

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

Information Element	Condition	Value/remark
Message Type	A1,A3	
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		(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI		Not Present
New C-RNTI		Not Present
New DSCH-RNTI		Not Present
RRC State indicator		CELL_DCH
UTRAN DRX cycle length coefficient		Not Present
CN information info		Not Present
URA identity		Not Present
Signalling RB information to setup	1	Not Present
RAB information for setup list	A1	
- RAB information for setup		
- RAB info	1	
- 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		40
- 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 CHOICE Downlink RLC mode		FALSE TM RLC
- Segmentation indication		FALSE
- RB mapping info		FALSE
- Information for each multiplexing option		
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type	1	DCH
- UL Transport channel identity	1	1
- Logical channel identity		Not Present
- CHOICE RLC size list	1	Configured
- MAC logical channel priority	1	7
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels	1	1
- Downlink transport channel type	1	DCH
- DL DCH Transport channel identity		6
- DL DSCH Transport channel identity	1	Not Present
- Logical channel identity	1	Not Present
RAB information for setup list	A3	
- RAB information for setup		
- RAB info	1	
- RAB identity		0000 0101B
,	1	The first/ leftmost bit of the bit string contains
	1	the most significant bit of the RAB identity.
- CN domain identity		PS domain ,
- NAS Synchronization Indicator	1	Not Present
- Re-establishment timer	1	UseT314
- RB information to setup list	1	
- RB information to setup		
·		'

Information Element	Condition	Value/remark
- RB identity		20
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		AM RLC
		AWI KLC
- Transmission RLC discard		No diseased
- 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
·		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		
 Timer_status_prohibit 		200
- Timer_EPC		200
- Missing PDU indicator		TRUE
- Timer_STATUS_periodic		Not Present
- RB mapping info		
- Information for each multiplexing option		2RBMuxOptions
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
 MAC logical channel priority 		8
 Downlink RLC logical channel info 		
 Number of downlink RLC logical channels 		1
 Downlink transport channel type 		DCH
 DL DCH Transport channel identity 		6
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		RACH
- UL Transport channel identity		Not Present
- Logical channel identity		7
		-
- CHOICE RLC size list		Explicit List
- RLC size index		Reference to TS34.108 clause 6 Parameter
		Set
- MAC logical channel priority		8
- Downlink RLC logical channel info		
 Number of downlink RLC logical channels 		1
- Downlink transport channel type		FACH
- DL DCH Transport channel identity		Not Present
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
RB information to be affected list	A1,A3	Not Present
Downlink counter synchronisation info	,	Not Present
UL Transport channel information for all transport	A1,A3	11017 100011
channels	71,73	
		Not Descent
- PRACH TFCS		Not Present
- CHOICE mode		TDD
-Individual UL CCTrCH information		<u></u>
- 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.)

Information Element	Condition	Value/remark
- 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 UL TrCH information list		Not Present
Added or Reconfigured UL TrCH information list	A1	1
- Added or Reconfigured UL TrCH information		DOLL
- Uplink transport channel type		DCH
- UL Transport channel identity - 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
TALO GIZO		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
· ·		Set
- Transmission Time Interval		Not Present
- Number of Transport blocks		1
- CHOICE Logical Channel List		ALL
- Semi-static Transport Format Information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
Tune of changed anding		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
- Coding Nate		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
Trail matering annuals		Set
- 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	A1,A3	
transport channel		
- SCCPCH TFCS		Not Present
- CHOICE mode		TDD
- CHOICE DL parameters	A4 A0	Independent (Refer to TS34.108 clause 6)
Deleted DL TrCH information list	A1,A3	Not Present
Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information		1
- Added of Reconfigured DL Tron 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	<u> </u>	Reference to TS34.108 clause 6
Frequency info	A1,A3	Not Present
Maximum allowed UL TX power		30dBm
CHOICE channel requirement		Uplink DPCH info
- Uplink DPCH power control info		
- CHOICE mode		TDD
- UL Target SIR		Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info		Individually signalled
Individual timeslot interference info Individual timeslot interference		
- DPCH Constant Value		Values are used for open loop power control,
- Di Oli Golistant value		section 8 in TS 25.331
- Uplink Timing Advance Control		Not Present
- UL CCTrCH List		
- TFCS Id		1
•	•	•

Information Element	Condition	Value/remark
- 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
- TFCI coding		Set Reference to TS34.108 clause 6.10 Parameter
_		Set
- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period		Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length		Reference to TS34.108 clause 6.10 Parameter Set
 First individual timeslot info 		
- Timeslot number		The number of an uplink timeslot that has unassigned codes.
- TFCI existence		TRUE
 Midamble shift and burst type CHOICE Burst Type 		
-Type 1		Default
-Midamble Allocation Mode - Midamble configuration burst		Default As defined in 3GPP TS 25.221
type 1 and 3 - First timeslot channelisation codes		Popostod (4.2) for each channelization seds
- 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
- CHOICE more timeslots		6 Parameter Set. The presence of this IE depends upon the number of resources specified in TS34.108 section 6 and the number of slots in which they
CHOICE Mode		are being assigned. TDD (no data)
Downlink information common for all radio links	A1,A3	,
- Downlink DPCH info common for all RL	7 , ,	
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
		Not Flesent
- Downlink DPCH power control information		TDD
- CHOICE mode		TDD
- DPC mode		0 (single)
- Default DPCH Offset Value		Not Present
Downlink information for per radio link list - Downlink information for each radio link	A1,A3	TDD
- CHOICE mode - Primary CCPCH info		TDD
- 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		
		Reference to TS34.108
- 2 _{nd} interleaving mode		TRUE
- TFCI coding - Puncturing limit		Reference to TS34.108 clause 6 Parameter set
Donatition paried		
- Repetition period		1
- Repetition length		Empty
- Downlink DPCH timeslots and codes		
 Individual timeslot info 	1	

Information Element	Condition	Value/remark
- Timeslot number		The number of a downlink timeslot that has
		unassigned codes.
- TFCI existence		TRUE
 Midamble shift and burst type 		
-CHOICE Burst Type		
-Type 1		
-Midamble Allocation Mode		Default
- Midamble configuration burst		As defined in 3GPP TS 25.221
type 1 and 3		
 First timeslot channelisation codes 		
- 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
D''		that is being assigned in the slot.
- Bitmap		Bitmap of the codes that are being assigned in
0110105		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
LIL COT*CH TDC Liet		have been assigned in the first timeslot
- UL CCTrCH TPC List		Not Present
-SCCPCH information for FACH		Not Present

Co	ndition	Explanation
A1		This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected.
A3	A3 This IE is needed for acknowledged mode.	
NOTE: In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the combination of UL and DL channels or test requirements.		

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
Message Type	
U-RNTI	This IE is set to the following value when the message is
	transmitted on the DCCCH. When transmitted on
	CDCCH, this is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	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 SETUP message: UM

Information Element Message Type Initial UE identity Select	Value/remark
LIGHT OF THE CONTROL I SOLOT	the same identity as in the IE "Initial UE Identity" in
· · · · · · · · · · · · · · · · · · ·	ed RRC CONNECTION REQUEST" message
	rily selects an integer between 0 and 3
	esent(Now)
New U-RNTI	000/11(1 10W)
	0000 0001B
	0000 0001B
New C-RNTI Not Pr	
RRC State Indicator CELL_	
	_DOI1
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
Capability update requirement	_
- UE radio access FDD capability update FALSE	=
requirement	
- UE radio access TDD capability update TRUE	
requirement	
- System specific capability update requirement list GSM	_
Signalling RB information to setup list 4 SRB	
1	CCH for RRC)
- RB identity Not Pr	
- CHOICE RLC info type RLC ir	
- CHOICE Uplink RLC mode UM RL	
- Transmission RLC discard Not Pr	
- CHOICE Downlink RLC mode UM RL	LU .
- RB mapping info	
	luxOptions
- RLC logical channel mapping indicator Not Pr	esent
- Number of RLC logical channels	
- Uplink transport channel type DCH	
- UL Transport channel identity 5	
- Logical channel identity 1	
- CHOICE RLC size list Config	ured
- 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 Pr	esent
- Logical channel identity 1	
- RLC logical channel mapping indicator Not Pr	esent
- Number of RLC logical channels 1	
- Uplink transport channel type RACH	
- UL Transport channel identity Not Pr	esent
- Logical channel identity 1	
- CHOICE RLC size list Config	
	ence 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 Pr	esent
- DL DSCH Transport channel identity Not Pr	esent
- Logical channel identity 1	
- Signalling RB information to setup (AM D	CCH for RRC)
- RB identity Not Pr	esent
- CHOICE RLC info type	

Information Element	Value/remark
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	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 Not Propert
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(ANA DOCULTON NACE DELLICITA principale)
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	

Information Element	Value/remark
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	-
- SDU discard mode	No Discard
- MAX_DAT	415
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- 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	0.0014 0.0
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
-UL Transport channel identity	5
Logical channel identity CHOICE RLC size list	3 Configured
- MAC logical channel priority	Configured 3
- Downlink RLC logical channel info	3
- 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
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC

Information Element	Value/remark
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	0.0004 0.00
- 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 Configured
- CHOICE RLC size list	Configured 4
- MAC logical channel priority - Downlink RLC logical channel info	4
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE Mode	TDD
-Individual UL CCTrCH information	
- UL TFCS ID	(This IE is repeated for TFC number.)

- Common timeslot info

Value/remark Information Element - UL TFCS - TFC subset Default value is the complete existing set of transport format combinations 0 to MaxTFCvalue-1 (MaxTFCValue is refer to - Allowed Transport Format combination TS34.108 clause 6 Parameter Set.) - PRACH TFCS (This IE is repeated for TFC number.) - CHOICE TFCI signalling Normal - TFCI Field 1 information - TFCS complete reconfigure information - CHOICE TFCS Size Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set - CTFC information Not Present - CHOICE mode TDD - Individual UL CCTrCH information Not Present Deleted TrCH information list Not Present Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type DCH - UL Transport channel identity 5 - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport Format Information - RLC size According to TS34.108 clause 6 - Number of TBs and TTI List (This IE is repeated for TFI number) - CHOICE mode - Transmission Time Interval According to TS34.108 clause 6 - CHOICE Logical channel list ΑII - Semi-static Transport Format information DL Transport channel information common for all transport channel - SCCPCH TFCS Not Present - CHOICE mode TDD Same as UL - CHOICE DL parameters Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information DCH - Downlink transport channel type 10 - DL Transport channel identity Same as UL - CHOICE DL parameters - Uplink transport channel type DCH - UL TrCH Identity - DCH quality target - BLER Quality value Reference to TS 34.108 Frequency info Not Present Maximum allowed UL TX power Not Present CHOICE channel requirement Uplink DPCH info - Uplink DPCH power control info - CHOICE mode - UL target SIR Reference to TS34.108 Parameter set TDD - CHOICE mode Individually signalled - CHOICE UL OL PC info - Individual timeslot interference info Not Present - Individual timeslot interference - DPCH Constant Value - Primary CCPCH Tx Power Not Present - Time info - Activation time (256+CFN-(CFN MOD 8 + 8))MOD 256 - Duration Infinite

Information Element	Value/remark
- 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
- 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	Letter to a
- Timing Indication	Initialise
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD (no data)
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for per radio links list	
-Downlink information for each radio links	
- CHOICE mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
	Illilite
- Common timeslot info	Deference to TC24 400
- 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 - Timeslot number	The number of a downlink timeslot that has
- Hillesiot Hullibel	unassigned codes in a frame.
- Individual timeslot info	anacoigned codes in a name.
- TFCI existence	TRUE
- Midamble shift and burst type	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	
- First timeslot channelisation codes	(105)
- First channelisation code	(i/SF) where i is the lowest numbered code
	that is being assigned and SF is specified in
- Last channelisation code	TS34.108 clause 6 Parameter Set (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
LIL COT-CH TDO Lint	have been assigned in the first timeslot
- UL CCTrCH TPC List -SCCPCH information for FACH	Not Present Not Present
-SOUF GET INIONNALION TO FACE	INOUT LESCUE

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,
0		this IE is set to TRUE.
- Spare		Spare 2-15 = FALSE
 Integrity protection algorithm capability UIA1 		0000000000000010B (UIA1) TRUE
- UIA1 - Spare		Spare 0 and Spare 2-15 = FALSE
- Spare 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
Ophening digonami		of the algorithms supported by the UE as indicated in
		the IE "security capability" in the RRC CONNECTION
		SETUP COMPLETE message.Use the same
		ciphering algorithm specified in "ciphering
- Ciphering activation time for DPCH		Not Present
- Radio bearer downlink ciphering		
activation time info		
 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		Chart
- Integrity protection mode command		Start Not Present
- Downlink integrity protection activation		Not Present
info		UIA1
Integrity protection algorithm Integrity protection initialisation number		
- integrity protection initialisation number		SS selects an arbitrary 32 bits number for FRESH. The first/ leftmost bit of the bit string contains the
		most significant bit of the FRESH.
CN domain identity		CS or PS
UE system specific security capability	A1	Not Checked
UE system specific security capability	A2	1400 OTTOOROU
- Inter-RAT UE security capability	, 12	
- CHOICE system		GSM
- GSM security capability		The indicated algorithms must be the same as the
January Sapasing		algorithms supported by the UE as indicated in the IE
		" UE system specific capability " in the RRC
		CONNECTION SETUP COMPLETE message.
	l	,

Condition	Explanation
A1	UE not supporting GSM
A2	UE supporting GSM

Annex A (informative): Void

Annex B (informative): Change history

Meeting	Doc-1st-	CR	Rev	Subject	Cat	Version-	Version-	Doc-2nd-
-1st-	Level		I TOV	Cubjest	Jui	Current	New	Level
Level				Annual of the energy of the		0.0.0	0.0.0	
TP-08	TD 000404	004		Approval of the specification	_	2.0.0	3.0.0	T4 000400
TP-09	TP-000131	001		RRC Message Contents: RLCSize	С	3.0.1	3.1.0	T1-000190
TP-09	TP-000131	002		RRC Message Contents: RLCParam	С	3.0.1	3.1.0	T1-000191
TP-09	TP-000131	003		RRC Message Contents: PCPreamble	С	3.0.1	3.1.0	T1-000192
TP-09	TP-000131	004		RRC Message Contents: RBIdentity	С	3.0.1	3.1.0	T1-000193
TP-09	TP-000131	005		RRC Message Contents: TrCHParam	С	3.0.1	3.1.0	T1-000194
TP-09	TP-000131	006		RRC Message Contents: UECapability	С	3.0.1	3.1.0	T1-000195
TP-09	TP-000131	007		RRC Message Contents: RBMapping	С	3.0.1	3.1.0	T1-000196
TP-09	TP-000131	800		RRC Message Contents: PagingCause	С	3.0.1	3.1.0	T1-000197
TP-09	TP-000131	009		RRC Message Contents: CipheringAndIntegrity	С	3.0.1	3.1.0	T1-000198
TP-09	TP-000131	010		RRC Message Contents: RLCInfo	С	3.0.1	3.1.0	T1-000199
TP-09	TP-000131	011		RRC Message Contents: CompressedMode	С	3.0.1	3.1.0	T1-000200
TP-09	TP-000131	012		RRC Message Contents: SIB	С	3.0.1	3.1.0	T1-000201
TP-09	TP-000131	013		RRC Message Contents: PhyCH	D	3.0.1	3.1.0	T1-000202
TP-09	TP-000131	014		RRC Message Contents: Measurement	С	3.0.1	3.1.0	T1-000203
TP-09	TP-000131	015		RRC Message Contents: TFCS	С	3.0.1	3.1.0	T1-000204
TP-09	TP-000131	016		RRC Message Contents: DPCHFrameOffset	C	3.0.1	3.1.0	T1-000205
TP-09	TP-000131	017		Test USIM Parameters	F	3.0.1	3.1.0	T1-000215
TP-09	TP-000131	017		Correction to definition of the test algorithm for	F	3.0.1	3.1.0	T1-000213
11 -03	11 -000131	010		authentication (clause 8.1.2)		3.0.1	3.1.0	11-000104
TP-09	TP-000131	019		Reference Radio Bearer Configurations	F	3.0.1	3.1.0	T1-000212
TP-09	TP-000131	020		TDD Single mode	F	3.0.1	3.1.0	T1-000212
TP-10	TP-000131	020		Common generic procedure for AS testing	В	3.1.0	3.2.0	T1-000220
	TP-000215							T1-000294
TP-10		022		Tcell parameter	F	3.1.0	3.2.0	
TP-10	TP-000215	023		Minimum Performance Levels	F	3.1.0	3.2.0	T1-000306
TP-10	TP-000215	024		Downlink signal conditions and propagation conditions	D	3.1.0	3.2.0	T1-000307
TP-10	TP-000215	025		Updating 34.108 v3.1.0 to TDD single mode	F	3.1.0	3.2.0	T1-000281
TP-10	TP-000215	026		Application of integrity mode protection to signalling message by default	F	3.1.0	3.2.0	T1-000296
TP-10	TP-000215	027			С	3.1.0	3.2.0	T1-000282
TP-10	TP-000215	028		Updates to System Information Block (SIB) and Master Information Block (MIB) messages	С	3.1.0	3.2.0	T1-000283
TP-10	TP-000215	029		Application of ciphering during conformance testing	С	3.1.0	3.2.0	T1-000285
TP-10	TP-000215	030		Addition for System Information parameters (34.108	F	3.1.0	3.2.0	T1-000283
TP-10	TP-000215	031		clause 6.1) Correction for Generic Setup Procedures (34.108	F	3.1.0	3.2.0	T1-000305
	TD 040040			clause 7.2)	_			
TP-11	TP-010018	032		Default radio conditions for multi-cell environment	F	3.2.0	3.3.0	T1-010078
TP-11	TP-010018	033		Correction for Generic Setup Procedures (34.108 clause 7.2)	F	3.2.0	3.3.0	T1-010079
TP-11	TP-010018	034		Corrections for Test USIM Parameters(34.108 clause 8)	F	3.2.0	3.3.0	T1-010080
TP-11	TP-010018	035		Correction of clause number in TS 34.108.	D	3.2.0	3.3.0	T1-010081
TP-11	TP-010018	036		Update of authentication test algorithm	С	3.2.0	3.3.0	T1-010082
TP-11	TP-010018	037		Updates to clause 9 of TS 34.108 v3.2.0	F	3.2.0	3.3.0	T1-010084
TP-11	TP-010018	038		Updating to TDD single mode	F	3.2.0	3.3.0	T1-010088
TP-11	TP-010018	039		Simulated network environments for TDD mode (SIB)		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	040		Corrections to clause 6.10 TDD parameters	F	3.3.0	3.4.0	T1-010203
TP-12	TP-010118	041		Adding section for radio bearer configurations	D	3.3.0	3.4.0	
				intended for functional testing				T1-010210
TP-12	TP-010118	043		Update of list of abbreviations	D	3.3.0	3.4.0	T1-010211
TP-12	TP-010118	044		Updates to clause 6.1 and 9	F	3.3.0	3.4.0	T1-010212
TP-12	TP-010118	045		Updates to clause 7.4	F	3.3.0	3.4.0	T1-010213
TP-12	TP-010118	046		clause 6.1: System Information Blocks for TDD Mode	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
11 -13	11 -010213	000		Come corrections in clause 3		J.4.U	0.0.0	11-010211

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-1st- Level	Level					Current	New	Level
TP-13	TP-010215	051			F	3.4.0	3.5.0	T1-010278
TP-13	TP-010215	052		parameters	F	3.4.0	3.5.0	T1-010279
TP-13	TP-010215	053			F	3.4.0	3.5.0	T1-010280
TP-13	TP-010215	054		tests	F	3.4.0	3.5.0	T1-010281
TP-13	TP-010215	055		Correction of Radio Bearer Configurations for FDD Mode	F	3.4.0	3.5.0	T1-010282
TP-13	TP-010215	056		Correction of Radio Bearer Configurations for TDD Mode	F	3.4.0	3.5.0	T1-010283
TP-13	TP-010215	057		Changes to Signalling Radio Bearer (SRB) numbering	F	3.4.0	3.5.0	T1-010284
TP-13	TP-010215	058		3	F	3.4.0	3.5.0	T1-010285
TP-13	TP-010215	059		7	F	3.4.0	3.5.0	T1-010286
TP-13	TP-010215	063			F	3.4.0	3.5.0	T1-010290
TP-14	TP-010285	064	1	Correction to 6.1 Contents of System Information Blocks	F	3.5.0	3.6.0	T1-010474
TP-14	TP-010285	066	1	Corrections to clause 6.1, 7.4 and 9	F	3.5.0	3.6.0	T1-010472
TP-14	TP-010258	068		Reference Radio Conditions	F	3.5.0	3.6.0	T1-010460
TP-14 TP-14	TP-010258	070		Modification of Test procedures for RF tests	F	3.5.0	3.6.0	T1-010462
TP-14 TP-14	TP-010258 TP-010258	072 074		Default message contents for RF tests Correction to 6.10 Reference Radio Bearer	F	3.5.0 3.5.0	3.6.0	T1-010464 T1-010466
				configurations	F			
TP-14 TP-14	TP-010258 TP-010258	076 078		Definition of default value of rate matching attribute Update of clause 7.4 and 6.10	F	3.5.0 3.5.0	3.6.0	T1-010468 T1-010470
TP-14	TP-010236	080		Correction on introduction of section 6.10	F	3.5.0	3.6.0	11-010470
TP-15	TP-020038	082		Replacement of Block STTD by Space Code Transmit		3.6.0	3.7.0	T1-020091
TP-15	TP-020038	084		Diversity (SCTD) Update of reference radio conditions	F	3.6.0	3.7.0	T1-020097
TP-15	TP-020038	086		Update of system reference configurations and default		3.6.0	3.7.0	T1-020097
				messages				
TP-15	TP-020038	088		Corrections to 34108-360	F	3.6.0	3.7.0	T1-020101
TP-15	TP-020038	090		Introduction of new Reference RABs (LS from RAN T1-020025)	F	3.6.0	3.7.0	T1-020194
TP-15	TP-020038	092		Clarification of bit rate of Interactive/Background PS RAB function	F	3.6.0	3.7.0	T1-020105
TP-15	TP-020038	093		Update of SIBs for TDD mode in TS34.108 (Rel99)	F	3.6.0	3.7.0	T1-020106
				Correction of CR implementation errors in clauses: 6.10.2.2, 6.10.2.4.1.23 and 6.10.2.4.1.58.2.1.1		3.7.0	3.7.1	
TP-16	TP-020141	096		Correction to clause 7.3.3.4 RADIO BEARER SETUP message	F	3.7.1	3.8.0	T1-020271
TP-16	TP-020141	097		Change of RM attribute of DL:3.4 kbps SRBs for DCCH in TS34.108 for R99	F	3.7.1	3.8.0	T1-020272
TP-16	TP-020141	098		New additional RAB configuration (R1-020669) for R99	F	3.7.1	3.8.0	T1-020273
TP-16	TP-020141	099		Correction of Puncturing Limit for RABs in TS34.108 for R99	F	3.7.1	3.8.0	T1-020274
TP-16	TP-020141	100		Test USIM	F	3.7.1	3.8.0	T1-020275
TP-16	TP-020141	101		Section 6.1 (SIBs)Rel 99 TDD	F	3.7.1	3.8.0	T1-020276
TP-16	TP-020141	102		Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB	F	3.7.1	3.8.0	T1-020277
TP-16	TP-020141	103		Correction to default message on clause 9 for Rel'99	F	3.7.1	3.8.0	T1-020278
TP-16	TP-020141	104		Correction to clause 6.1for Rel'99	F	3.7.1	3.8.0	T1-020279
TP-16	TP-020141	105		WCDMA1800 additions for Rel'99	F	3.7.1	3.8.0	T1-020280
TP-16	TP-020141	106		Section 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD	F	3.7.1	3.8.0	T1-020281
TP-16	TP-020141	107		Section 9.1, Inclusion of Default message contents for TDD Rel 99(TS34.108)	F	3.7.1	3.8.0	T1-020282
TP-16	TP-020141	120		Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment	F	3.7.1	3.8.0	T1-020433
TP-17	TP-020184	122	-	Alignment of reference configurations on S-CCPCH	F	3.8.0	3.9.0	T1-020502
TP-17	TP-020184	124	_	with default system information messages Addition of reference compressed mode pattern	F	3.8.0	3.9.0	T1-020504
TP-17	TP-020184	126	-	Corrections to default message contents as T1S-	F	3.8.0	3.9.0	T1-020504
				020346rev1				
TP-17 TP-17	TP-020184	128	-	Additional default message contents for RF Testing	F	3.8.0	3.9.0	T1-020508
	TP-020184	130	-	Corrections related to SIB11, SIB12 and to the MEASUREMENT CONTROL message		3.8.0	3.9.0	T1-020526
TP-17	TP-020184	132	-	Corrections to clause 6.1 (T1S-020348rev1)	F	3.8.0	3.9.0	T1-020529

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-1st- Level	Level	_				Current	New	Level
TP-17	TP-020184	134	-	Introduction of reference configurations on S-CCPCH and PRACH with two interactive PS domain RABs	F	3.8.0	3.9.0	T1-020538
TP-17	TP-020184	136	-	Removal of reference radio bearer configurations for unidirectional streaming CS RABa above 64 kbps	F	3.8.0	3.9.0	T1-020540
TP-17	TP-020184	139	-	Some corrections and updates in clause 6.1 TS 34.108 for TDD mode	F	3.8.0	3.9.0	T1-020575
TP-17	TP-020184	141	-		F	3.8.0	3.9.0	T1-020577
TP-18	TP-020293	143	-	Correction to default messages in 9.1 and 9.2	F	3.9.0	3.10.0	T1-020657
TP-18	TP-020293	145	-	Corrections in the TDD test frequencies according to	F	3.9.0	3.10.0	T1-020673
TP-18	TP-020293	147	-	core specs Addition of alternative configuration using Turbo	F	3.9.0	3.10.0	T1-020693
	020200			Coding for Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		0.0.0	0.10.0	11 02000
TP-18	TP-020293	149	-	Correction to content of sub-clause 6.10.2	F	3.9.0	3.10.0	T1-020708
TP-18	TP-020293	151	-	Correction to SIB 11/12 definition	F	3.9.0	3.10.0	T1-020711
TP-18	TP-020293	153	-	Reference Measurement Channels	F	3.9.0	3.10.0	T1-020767
TP-18	TP-020293	155	-	Transferring system information definition using ASN.1 description to PRD	F	3.9.0	3.10.0	T1-020777
TP-18	TP-020293	157	-	Correction to RLC RAB TFCS	F	3.9.0	3.10.0	T1-020779
TP-18	TP-020293	159		Default Message contents : Correction from CRs approved in RP17meeting	F	3.9.0	3.10.0	T1-020782
TP-18	TP-020293	161	-	Corrections to SIB1 to SIB6	F	3.9.0	3.10.0	T1-020798
TP-18	TP-020293	163	-	Correction to RAB configurations as revision of T1S020755	F	3.9.0	3.10.0	T1-020800
TP-18	TP-020293	165	-	Parameter addition for Reference RABs based on LS from RAN2	F	3.9.0	3.10.0	T1-020802
TP-18	TP-020293	167	-	Addition to clause 7.4 for multi call as T1S-020576rev2 (revision to T1S020819)	F	3.9.0	3.10.0	T1-020817
TP-18	TP-020293	170		Correction to Contents of the Scheduling Block System Information in clause 6.1.3.	F	3.9.0	3.10.0	T1-020843
TP-19	TP-030043	172	-	RAB Removal from R99 TS 34.108 as T1S030001rev1	F	3.10.0	3.11.0	T1-030036
TP-19	TP-030043	174	-	Combine all Radio Bearer Setup messages into one table	F	3.10.0	3.11.0	T1-030039
TP-19	TP-030043	176	-	Corrections to SB and SIB configurations in clause 6.1 as T1S030045rev1	F	3.10.0	3.11.0	T1-030041
TP-19	TP-030043	178	-	Correction to TS34.108 R99 ; PAGING TYPE1 message (Packet in PS)	F	3.10.0	3.11.0	T1-030043
TP-19	TP-030043	180	-	Clarification of autentication test algorithm and GSM cipher key	F	3.10.0	3.11.0	T1-030045
TP-19	TP-030043	182	-	Addition of simulated network environment for inter- RAT test cases	F	3.10.0	3.11.0	T1-030047
TP-19	TP-030043	184	-	Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1	F	3.10.0	3.11.0	T1-030049
TP-19	TP-030043	186	-	Addition of default inter-RAT handover messages	F	3.10.0	3.11.0	T1-030051
TP-19	TP-030043	188	-	Correction of activation time IEs in default messages	F	3.10.0	3.11.0	T1-030053
TP-19	TP-030043	190	-	Correction to default SECURITY MODE COMMAND message	F	3.10.0	3.11.0	T1-030055
TP-19	TP-030043	192	-	Addition of option for UL CM only in default reference CM patterns	F	3.10.0	3.11.0	T1-030057
TP-19	TP-030043	194	-	Introduction of a reference RB configuration for RMC for BTFD tests (R99)	F	3.10.0	3.11.0	T1-030059
TP-19	TP-030043	196	-	Update of the RRC connection request messages in 34.108 R99	F	3.10.0	3.11.0	T1-030062
TP-19	TP-030044	199		Update of default parameters for 1 to 8 cell environments (TDD), clause 6.1.4, Rel 99	F	3.10.0	3.11.0	T1-030131
TP-19	TP-030044	201	-	Update of Multi-cell environment for default radio conditions (TDD), clause 6.1.6 (Inclusion of cell 4), Rel 99	F	3.10.0	3.11.0	T1-030209
TP-19	TP-030044	203		Modification to Generic Registration Procedures	F	3.10.0	3.11.0	T1-030221
TP-19	TP-030044	205	-	Update of default configurations to enable testing of low end UE	F	3.10.0	3.11.0	T1-030227
TP-20	TP-030098	207	-	Reinstate parameters for Interactive or background /UL:64 kbps / PS RAB	F	3.11.0	3.12.0	T1-030436
TP-20	TP-030098	209	-	Correction to Figure 7.4.1.1 (Rel-99)	F	3.11.0	3.12.0	T1-030482
TP-20	TP-030098	211	-	Update of SIB 11 and 12 in clause 6.1.0b in TS34.108 (TDD)		3.11.0	3.12.0	T1-030506
TP-20	TP-030098	213	-	Update of Default parameters for 1 to 8 cell environments in TS34.108 (TDD)	F	3.11.0	3.12.0	T1-030508
TP-20	TP-030098	215	-	Correction of default messages according to 25331	F	3.11.0	3.12.0	T1-030631

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		T		CR1823				
TP-20	TP-030098	217	-	Section 8.2: Definition of default values for authentication key K on test USIM	F	3.11.0	3.12.0	T1-030643
TP-20	TP-030098	220	-	Correction to RADIO BEARER RELEASE and RRC CONNECTION SETUP messages (Revision of T1-030568)	F	3.11.0	3.12.0	T1-030698
TP-20	TP-030098	222	-	Update of Reconfiguration messages [revision to T1-030691]	F	3.11.0	3.12.0	T1-030711
TP-20	TP-030140	225	-	Correction to default SIB5 (FDD)	F	3.11.0	3.12.0	T1-030744
TP-21	TP-030191	227	-	CR to 34.108, R99, Clarification of seg_count in 6.1.0a.3	F	3.12.0	3.13.0	T1-030826
TP-21	TP-030191	229	-	General correction in clause 7.4 for Common generic procedures for AS testing	F	3.12.0	3.13.0	T1-030975
TP-21	TP-030191	232	-	Incorrect activation time in CELL_FACH state	F	3.12.0	3.13.0	T1-031063
TP-21	TP-030191	234	-	Incorrect Transport Channel Parameters	F	3.12.0	3.13.0	T1-031065
TP-21	TP-030191	236	-	Corrections to TS 34.108 common procedures in clause 7.4 of R*99 of TS 34.108	F	3.12.0	3.13.0	T1-031094
TP-21	TP-030191	238	-	Removal of RLC AM in the Default Message Content	F	3.12.0	3.13.0	T1-031150
TP-21	TP-030191	241	-	CR 34.108 R99: Manual attach in State 7 Registrated Idle Mode on CS/PS	F	3.12.0	3.13.0	T1-031174
TP-21	TP-030191	243	-	URA Identity in Cell Update Confirm and URA Update Confirm	F	3.12.0	3.13.0	T1-031178
TP-21	TP-030191	245	-	CR to 34.108 R99; Correction to specification to reflect a change already approved in TTCN CR T1-030396	F	3.12.0	3.13.0	T1-031240
TP-21	TP-030191	247	-	CR to 34.108 REL-99; Correction to section 7.3 Test procedures for RF test	F	3.12.0	3.13.0	T1-031250
TP-22	TP-030279	259	2	CR on PAGING TYPE 1, RRC CONNECTION REQUEST and RRC CONNECTION SETUP messages for MT RR Connection	F	3.13.0	3.14.0	T1-031595
TP-22	TP-030279	261		CR 34.108 R99: EFRPLMNACT (RPLMN Last used Access Technology) removed	F	3.13.0	3.14.0	T1-031380
TP-22	TP-030279	263	1	Update of default messages for RRC CONNECTION SETUP and SECURITY MODE COMMAND	F	3.13.0	3.14.0	T1-031546
TP-22	TP-030279	265	1	Description and corrections of channels for minimum performance levels, TDD mode.	F	3.13.0	3.14.0	T1-031644
TP-22	TP-030279	267	1	Test frequencies of UMTS800MHz band VI	В	3.13.0	3.14.0	T1-031554
TP-22	TP-030279	270	1	Update of generic test procedure for TX, RX and Performance Requirement	F	3.13.0	3.14.0	T1-031609
TP-22	TP-030279	272	1	Introduction of generic test procedure for RRM handover test cases	F	3.13.0	3.14.0	T1-031607
TP-22	TP-030279	274		Correction of CM TGD parameter	F	3.13.0	3.14.0	T1-031451
TP-22	TP-030279	276		Corrections to default message contents of Radio Bearer Release	F	3.13.0	3.14.0	T1-031470
TP-22	TP-030279	278	1	Modification to default DPCCH_Power_offset value	F	3.13.0	3.14.0	T1-031597

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TP-22	TP-030279	282		Correction of TFCS for radio bearer combination 6.10.2.4.1.51b	F	3.13.0	3.14.0	T1-031526
TP-23	TP-040037	286	-	Corrections to default message contents of RRC Connection Setup message	F	3.14.0	3.15.0	T1-040079
TP-23	TP-040037	288	-	Correction to Default parameters for Cells 1 to 8 in MultiPLMN cell environments – R99	F	3.14.0	3.15.0	T1-040094
TP-23	TP-040037	290	-	Corrections to TDD HCR RABs	F	3.14.0	3.15.0	T1-040102
TP-23	TP-040037	293	-	DL physical channel configuration in Default message contents for RF	F	3.14.0	3.15.0	T1-040147
TP-23	TP-040037	297	-	Correction to handling of Entered Parameter IE in default contents for Initial Direct Transfer	F	3.14.0	3.15.0	T1-040307
TP-23	TP-040037	299	-	New Radio Bearer Setup (FDD) message for RF (Revision of T1-040257)	F	3.14.0	3.15.0	T1-040416
TP-23	TP-040037	301	-	The diverse operation in TDD mode updating according to the core specification	F	3.14.0	3.15.0	T1-040369

History

	Document history						
V3.0.1	June 2000	Publication					
V3.1.0	September 2000	Publication					
V3.2.0	January 2001	Publication					
V3.3.0	March 2001	Publication					
V3.4.0	July 2001	Publication					
V3.5.0	September 2001	Publication					
V3.6.0	December 2001	Publication					
V3.7.0	March 2002	Publication					
V3.7.1	March 2002	Publication					
V3.8.0	June 2002	Publication					
V3.9.0	September 2002	Publication					
V3.10.0	December 2002	Publication					
V3.11.0	March 2003	Publication					
V3.12.0	June 2003	Publication					
V3.13.0	September 2003	Publication					
V3.14.0	December 2003	Publication					
V3.15.0	March 2004	Publication					