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### **Foreword**

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

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

Version x.y.z

where:

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

### Introduction

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

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

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

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

# 1 Scope

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

# 2 References

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

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

Telephone Network (PSTN)".

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

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

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

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

# 3 Definitions and abbreviations

# 3.1 Definitions

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

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

# 3.2 Abbreviations

Direct transfer

DT

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

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

DTCH Dedicated Traffic Channel FTM File tunnelling mode

HYB Hybrid

NAS Non-access stratum
OBW Occupied Bandwidth

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

the other orthogonal channels of a downlink.

PRACH Physical Randome Access Channel

PS Packet switching
RAB Radio Access Bearer
RB Radio Bearer

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

SCCPCH Secondary Common Control Physical Channel

SMS Short Message Service
SRB Signalling RB
SS System Simulator

SSD Source statistics descriptor

TC Turbo coding
TM Transparent mode

UL Uplink

UM Unacknowledgement mode

# 4 Common requirements of test equipment

Mobile conformance testing can be categorised into 3 distinct areas:

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

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

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

# 4.1 General Functional Requirements

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

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

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

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

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

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

# 4.2 Minimum performance levels

### 4.2.1 Supported Cell Configuration

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

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

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

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

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

#### 4.2.1.1 Supported Channels for FDD Mode

#### 4.2.1.1.1 Logical Channels

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

#### 4.2.1.1.2 Transport Channels

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

# 4.2.1.1.3 Physical Channels

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

# 4.2.1.2 Supported Channels for TDD Mode

# 4.2.1.2.1 Logical Channels

Logical Channel	Minimum Number	Comments
BCCH	1	
СССН	1	
DCCH	1	
PCCH	1	
DTCH	1	
SHCH	1	

# 4.2.1.2.2 Transport Channels

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

#### 4.2.1.2.3 Physical Channels (3.84 Mcps)

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

#### 4.2.1.2.4 Physical Channels (1.28 Mcps)

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

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

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

#### 4.2.2 RF Performance

#### 4.2.2.1 Frequency of Operation

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

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

#### 4.2.2.2 Power Level Setting Accuracy

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

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

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

#### 4.2.2.3 Uplink Power Control

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

#### 4.2.2.4 Uplink Signal Handling

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

### 4.2.2.5 Uplink Sensitivity

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

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

#### 4.2.3 Timers Tolerances

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

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

Where t<sub>delta</sub> is 55 ms.

# 5 Reference Test Conditions

# 5.1 Test frequencies

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

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

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

# 5.1.1 FDD Mode Test frequencies

UTRA/FDD is designed to operate in one of three paired bands [11]. The reference test frequencies for the common test environment for each of the 3 operating bands are defined in the following tables:

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

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

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

Test Frequency ID	Test Frequency ID UARFCN		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

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

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

# 5.1.2 TDD Mode Test frequencies

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

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

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

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

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

# 5.2 Radio conditions

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

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

### 5.2.1 Normal Propagation Condition

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

### 5.2.2 Static Propagation Condition

See [2] annex D for FDD.

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

### 5.2.3 Multi-Path Fading Propagation Conditions

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

# 5.2.4 Moving Propagation Conditions

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

### 5.2.5 Birth-Death propagation conditions

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

# 5.3 Standard test signals

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

# 5.4 Signal levels

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

# 5.4.1 Downlink Signal Levels

<FFS>

# 5.4.2 Uplink Signal Levels

<FFS>

# 6 Reference System Configurations

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

#### 6.1 Simulated network environments

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

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

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

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

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

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

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

### 6.1.0a Default Master Information Block and Scheduling Block messages

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

Mandatory in 34.108	Used in Idle Mode	MIB, SB1, (SB2), SIB1, SIB2, SIB3, SIB5, SIB7, SIB11		
	Used in Connected Mode	SIB4, SIB6, SIB12		
Mandatory	for FDD CPCH	SIB8, SIB9		
Mandatory	for FDD DRAC	SIB10		
Mandat	ory for TDD	SIB14, SIB17		
Mandat	ory 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

	иоск Гуре	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5	SIB6	SIB7	SIB11	SIB12	SIB18
SIE	B_REP	8	16	64	64	64	64	64	64	16	64	64	64
	SEG_ OUNT	1	1	1	1	1	1	4	4	1	3	3	1
	Frame SIB_P		0	2		4	6	8		10	12	14	4
	Block 1	Гуре	MIB	SB	1	SIB7	SIB6	MI	В	SIB6	SIB6	SIE	36
_		•		•	•			•	•	•			
	Frame SIB_P		16	18		20	22	24	1	26	28	30	0
	Block 1	Гуре	MIB	SB	I SI	37/SIB3	SIB1/SIB2	2 MI	В	SIB12	SIB12	SIB	12
_		I.		1	ı.		ı	<u> </u>	<u> </u>				

Frame No / SIB_POS	32	34	36	38	40	42	44	46
Block Type	MIB	SB1	SIB7/SIB18	SIB5	MIB	SIB5	SIB5	SIB5

Frame No / SIB_POS	48	50	52	54	56	58	60	62
Block Type	MIB	SB1	SIB7/SIB4		MIB	SIB11	SIB11	SIB11

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

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

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

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

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

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

Defense to the second of section blocks	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	6
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
	Custom Information Tuno 6
- SIB type SIBs only	System Information Type 6
- Scheduling information	N. B.
- CHOICE Value tag	Not Present
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	4
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 7
- Scheduling information	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
	3
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	58
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	26
	20
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB POS	36
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18
- טוט נאףפ טוטס טוווע נען אין אין אין אין אין אין אין אין אין אי	Joyatem initolination Type To

# Contents of Scheduling Block 1 (3.84 Mcps TDD)

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

- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	,
- 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	System miorination Type T
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG COUNT	3
- SIB_REP	64
- SIB_REF	29
- SIB_POS offset info	29
- SIB_OFF	2
- SIB_OFF - SIB type SIBs only	System Information Type 11
	System information Type 11
- Scheduling information	Call Makes to a
- CHOICE Value tag	Cell Value tag
- Cell Value tag	
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	13
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	54
- SIB_POS offset info	Not Present - use default
- SIB type SIBs only	System Information Type 14
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	6
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18

# 6.1.0a.4 SIB special schedules

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

FFS

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

FFS

# 6.1.0b Default System Information Block Messages

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

- CN common GSM-MAP NAS system	
information	
- GSM-MAP NAS system information	00 01H
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	05 00H
- CN domain specific DRX cycle length	7
coefficient	
- CN domain identity	cs
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	1E 01H
- CN domain specific DRX cycle length	7
coefficient	
- 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)
- <u>T</u> 311	Not Present (2000 milliseconds: default value)
- T312	Not Present (1 seconds: default value)
- N312	Not Present (1: default value)
- T313	Not Present (3 seconds: default value)
- N313	Not Present (20: default value)
- T314	Not Present (12 seconds: default value)
- T315	Not Present (180 seconds: default value)
- N315	Not Present (1: default value)
- T316	Not Present (30 seconds: default value)
- T317	Not Present (180 seconds: default value)

#### Contents of System Information Block type 2

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

# Contents of System Information Block type 3 (FDD)

- SIB4 indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	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
- Qquairiiri - 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	Interestice to table 0.1.1
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T <sub>barred</sub>	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	110110001100
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

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

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

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

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

- 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 <sub>barred</sub>	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	Not present

# Contents of System Information Block type 5 (FDD)

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

- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-Channel Number	'1111'B
	The first/ leftmost bit of the bit string contains the most
	significant bit of the Assigned Sub-Channel Number.
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-Channel Number	11111'B
	The first/ leftmost bit of the bit string contains the most
ACC Catting	significant bit of the Assigned Sub-Channel Number.  Not Present
- ASC Setting - ASC Setting	Not Present
- ASC Setting - CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature Start Index	7 (ASC#7)
- 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.
- Persistence scaling factor	organicality of the 7.00 igned out of anner indinter.
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- CHOICE mode	FDD
- Primary CPICH TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	4
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot 10 slot
- NB01max	10 800
- AICH info - Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	Ĭ
- Secondary CCPCH info	
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE (default value)
- Fixed or Flexible position	Flexible (default value)
- Timing offset	Not Present
	Absence of this IE is equivalent to default value 0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	

- CHOICE CTFC Size	•
- CHOICE CIFC Size	4 bit
- CTFC information	0
<ul> <li>Power offset information</li> </ul>	Not Present
- CTFC information	1
<ul> <li>Power offset information</li> </ul>	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- 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	Not Flesent
- TFS	(PCH)
_	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	0.40
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Logical Channel List	ALL
<ul> <li>Semi-static Transport Format information</li> </ul>	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- 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
<ul> <li>Dynamic Transport format information</li> </ul>	
- RLC Size	168
<ul> <li>Number of TB and TTI List</li> </ul>	
- Number of Transport blocks	0
<ul><li>Number of Transport blocks</li><li>Number of Transport blocks</li></ul>	0 1
<ul><li>Number of Transport blocks</li><li>Number of Transport blocks</li></ul>	1 2
- Number of Transport blocks	1 2
<ul><li>Number of Transport blocks</li><li>Number of Transport blocks</li></ul>	1
<ul><li>Number of Transport blocks</li><li>Number of Transport blocks</li><li>CHOICE Logical Channel List</li></ul>	1 2
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> </ul>	1 2 ALL
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> </ul>	1 2 ALL 10 ms
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>	1 2 ALL 10 ms Convolutional
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> </ul>	1 2 ALL 10 ms Convolutional 1/2
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220 16 bit
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH)
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH)
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH)
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> </ul>	1 2 ALL 10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360 0
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms Turbo 130
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Rate matching attribute</li> <li>CRC size</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms Turbo 130 16bit
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Rate matching attribute</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms Turbo 130
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms Turbo 130 16bit 14 (for FACH)
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>PICH info</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms Turbo 130 16bit 14 (for FACH)
<ul> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Coding Rate</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> <li>TFS</li> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> <li>RLC Size</li> <li>Number of TB and TTI List</li> <li>Number of Transport blocks</li> <li>Number of Transport blocks</li> <li>CHOICE Logical Channel List</li> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> <li>Type of channel coding</li> <li>Rate matching attribute</li> <li>CRC size</li> <li>Transport Channel Identity</li> <li>CTCH indicator</li> </ul>	1 2 ALL  10 ms Convolutional 1/2 220 16 bit 13 (for FACH) FALSE (FACH) Common transport channels  360  0 1 ALL  10 ms Turbo 130 16bit 14 (for FACH) FALSE

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

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

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	Total Todalia
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- UE positioning related parameters	Not Present /REL-4/
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Timeslot number	14
- PRACH Channelisation Code List	17
- CHOICE SF	SF8
- Channelisation Code List	51 0
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- PNBSCH allocation	Not Present /REL-4/
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	Jonning and d
- Transmission time interval	Reference clause 6.10 Parameter Set
	Reference clause 6.10 Parameter Set
- Type of channel coding	
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
<ul> <li>Available Channelisation codes indices</li> </ul>	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
•	

- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
<ul> <li>Available Channelisation codes indices</li> </ul>	Not Present (Default all)
<ul> <li>CHOICE subchannel size</li> </ul>	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
<ul> <li>Available Channelisation codes indices</li> <li>CHOICE subchannel size</li> </ul>	Not Present (Default all) Size1
- Available Subchannels	Inull
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode - CHOICE TDD option	TDD 3.84 Mcps TDD
Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
<ul> <li>Available Channelisation codes indices</li> </ul>	Not Present (Default all)
<ul> <li>CHOICE subchannel size</li> </ul>	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	0.0 (( 4.00 ((0)
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
<ul> <li>Persistence scaling factor</li> <li>Persistence scaling factor</li> </ul>	0.9 (for ASC#4) 0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- CHOICE mode	TDD (no data)
- Secondary CCPCH system information	
- Secondary CCPCH system information - Secondary CCPCH info	
- CHOICE mode	TDD
- Offset	0
- Common timeslot info	
- 2 <sup>nd</sup> interleaving mode	Frame
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	Not Present (MD "1")
- Repetition length	Not present (empty)
- Individual timeslot info	
- CHOICE TDD option	3.84 Mcps TDD
- Timeslot number	1 Reference clause 6.10 Parameter Set
- TFCI existence	IN ELECTRICE CIAUSE N. TU PATAMETEL SET
- Midamble Shift and huret type	Treference diagoe of the farameter con
<ul> <li>Midamble Shift and burst type</li> <li>CHOICE TDD option</li> </ul>	3.84 Mcps TDD

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

Type 1

Default midamble

4

Not Present 3.84 Mcps TDD

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

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

Complete reconfiguration

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

(PCH)

Common transport channels

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

Reference clause 6.10 Parameter Set

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

FALSE (FACH)

Common transport channels

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

Reference clause 6.10 Parameter Set ALL

Reference clause 6.10 Parameter Set 13 (for FACH)

FALSE (FACH)

Common transport channels

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

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

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

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

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

- Access Service Class	
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
<ul> <li>Available SYNC_UL codes indices</li> </ul>	"11111 <sup>1</sup> 11"
- CHOICE subchannel size	Size1
<ul> <li>Available Subchannels</li> </ul>	Null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" Size1
<ul> <li>CHOICE subchannel size</li> <li>Available Subchannels</li> </ul>	Null
- Available Subcharmers - ASC Settings	(ASC#2)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
<ul> <li>Available SYNC_UL codes indices</li> </ul>	"11111111"
<ul> <li>CHOICE subchannel size</li> </ul>	Size1
<ul> <li>Available Subchannels</li> </ul>	Null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
<ul> <li>Available SYNC_UL codes indices</li> <li>CHOICE subchannel size</li> </ul>	"11111111" Size1
- Available Subchannels	Null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
<ul> <li>Available SYNC_UL codes indices</li> </ul>	"11111 <sup>1</sup> 11"
<ul> <li>CHOICE subchannel size</li> </ul>	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
<ul> <li>CHOICE TDD option</li> <li>Available SYNC UL codes indices</li> </ul>	1.28 Mcps TDD "11111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
<ul> <li>Available SYNC_UL codes indices</li> </ul>	"1111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- Access Service Class	0.0 (for ASC#3)
<ul> <li>Persistence scaling factor</li> <li>Persistence scaling factor</li> </ul>	0.9 (for ASC#2) 0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	
<ul> <li>AC-to-ASC mapping table</li> </ul>	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
<ul> <li>AC-to-ASC mapping</li> <li>AC-to-ASC mapping</li> </ul>	3 (AC12) 2 (AC13)
- AC-to-ASC mapping - AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- CHOICE mode	TDD (no data)
- Secondary CCPCH system information	,
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	TDD
- Offset	0
- Common timeslot info	Frama
<ul> <li>2<sup>nd</sup> interleaving mode</li> <li>TFCI coding</li> </ul>	Frame Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	1
	1

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

0

1.28 Mcps TDD

Reference clause 6.10 Parameter Set

1.28 Mcps TDD

Default midamble

Not Present

1.28 Mcps TDD

Reference clause 6.10 Parameter Set

#### Addition

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

12 (for PCH)

(PCH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Not Present

ALL

Reference clause 6.10 Parameter Set

13 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Not Present

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set **FALSE** 

TDD

1.28 Mcps TDD

Default midamble

Not Present

(16/1)

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

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

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

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

- Coding Rate - Rate matching attribute - CRC size - RACH TFCS - PRACH partitioning - Access Service Class - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - ASC Settings - CHOICE mode - CHOICE TDD option - Available Channelisation codes indices - CHOICE subchannel size - Available Subchannels - Persistence scaling factors - Access Service Class - Persistence scaling factor - AC-to-ASC mapping - CHOICE mode - Secondary CCPCH system information - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Offset - Common timeslot info - 2<sup>nd</sup> interleaving mode - TFCI coding - Puncturing limit

- Repetition period

- Repetition length

Individual timeslot infoCHOICE TDD option

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not present (ASC#0) TDD /REL-4/ 3.84 Mcps TDD Not Present (Default all) Size1 null (ASC#1) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#2) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#3) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#4) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null (ASC#5) TDD Not Present (Default all) Size1 null (ASC#6) TDD 3.84 Mcps TDD /REL-4/ Not Present (Default all) Size1 null 0.9 (for ASC#2) 0.9 (for ASC#3) 0.9 (for ASC#4) 0.9 (for ASC#5) 0.9 (for ASC#6) Not Present TDD (no data) TDD 0 Not Present (MD "Frame") Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present

3.84 Mcps TDD

/REL-4/

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

1

Reference clause 6.10 Parameter Set

Type 1

Default midamble

4

Not Present

Reference clause 6.10 Parameter Set

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

Complete reconfiguration

Number of bits used must be enough to cover all

combinations of CTFC from clause 6.10.

Reference clause 6.10 Parameter Set

Not Present

(PCH)

Common transport channels

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Reference clause 6.10 Parameter Set

ALL

Reference clause 6.10 Parameter Set

12 (for PCH)

FALSE (FACH)

Common transport channels

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Reference clause 6.10 Parameter Set

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

13 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set 14 (for FACH)

FALSE

FALSE

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

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

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

_	Access	Serv	ice (	Class

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

(ASC#0) TDD

1.28 Mcps TDD

"111111111"

Size1 Null

(ASC#1)

TDD

1.28 Mcps TDD "11111111"

Size1 Null

(ASC#2)

TDD 1.28 Mcps TDD

"1111111111"

Size1 Null (ASC#3)

TDD 1.28 Mcps TDD

"111111111"

Size1 Null (ASC#4) TDD

1.28 Mcps TDD "111111111"

Size1 Null (ASC#5) TDD

1.28 Mcps TDD "111111111"

Size1 Null (ASC#6) TDD

1.28 Mcps TDD "111111111"

Size1 Null

0.9 (for ASC#2)

0.9 (for ASC#3) 0.9 (for ASC#4)

0.9 (for ASC#5)

0.9 (for ASC#6)

Not Present

Not Present TDD (no data)

TDD 0

Frame

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

1

1.28 Mcps TDD

0

Reference clause 6.10 Parameter Set

1.28 Mcps TDD Default midamble

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

4

Not Present 1.28 Mcps TDD

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Complete reconfiguration

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

Not Present

12 (for PCH) (PCH)

Common transport channels

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set

TDD

Not Present

ALL

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set 13 (for FACH)

(FACH)

Common transport channels

Reference clause 6.10 Parameter Set

Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set

TDD

Not Present

ALI

Reference clause 6.10 Parameter Set

**FALSE** 

TDD

1.28 Mcps TDD

C

Default midamble

8

Not Present

(16/1) (16/2)

64/2

0 4

4

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
		140t i icociit
- Measurement control system information		
- Use of HCS		Not used
- Cell selection and reselection quality measure		CPICH RSCP
	A4 A0	Of forthoof
- Intra-frequency measurement system	A1, A2	
information		
- Intra-frequency measurement identity		Not Present
mad noquency mode are ment admity		
		Absence of this IE is equivalent to default value 1
- Intra-frequency cell info list		
- CHOICE intra-frequency cell removal		Not present
		(This IE shall be ignored by the UE for SIB11)
<b>N</b> 1 : ( <b>f</b> 11		(This is shall be ignored by the Os for Sibir)
- New intra-frequency cells		
- Intra-frequency cell id		1 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
- Primary CPICH info		
- Primary scrambling code		Refer to clause titled "Default settings for cell No.1
- I filliary scrainbilling code		
		(FDD)" in clause 6.1.4
- Primary CPICH TX power		Not Present
- TX Diversity indicator		FALSE
<ul> <li>Cell Selection and Re-selection info</li> </ul>		Not Present
		(The IE shall be absent as this is the serving cell)
- Intra-frequency cell id		2
- Cell info		
<ul> <li>Cell individual offset</li> </ul>		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		Poter to alouge titled "Default cottings for call No.2
- Filmary Scrambling code		Refer to clause titled "Default settings for cell No.2
		(FDD)" in clause 6.1.4
- Primary CPICH TX power		Not Present
- TX Diversity indicator		FALSE
- Cell Selection and Re-selection info		Not present
		For neigbouring cell, if HCS is not used and all the
		r parameters in cell selection and re-selection into are
		parameters in cell selection and re-selection info are
		Default value, this IE is absent.
- Intra-frequency cell id		
		Default value, this IE is absent.
Intra-frequency cell id     Cell info		Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell
		Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary
		Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled
		Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary
- Cell info	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4
- Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7
- Cell info	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell
- Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary
- Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary
- Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled
- Cell info  - Intra-frequency cell id - Cell info	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4
- Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled
- Cell info  - Intra-frequency cell id - Cell info	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id	A1	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info		Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info		Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity		Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present  Not present  Absence of this IE is equivalent to the default value
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity - Filter coefficient	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present  Not present  Absence of this IE is equivalent to the default value 0
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity - Filter coefficient  - CHOICE mode	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present  Not present  Absence of this IE is equivalent to the default value 0  FDD
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity - Filter coefficient  - CHOICE mode - Measurement quantity	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present  Not present  Absence of this IE is equivalent to the default value 0
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity - Filter coefficient  - CHOICE mode - Measurement quantity	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present  Not present  Absence of this IE is equivalent to the default value 0  FDD  CPICH RSCP
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity - Filter coefficient  - CHOICE mode - Measurement quantity - Intra-frequency reporting quantity for RACH	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present  Not present  Absence of this IE is equivalent to the default value 0  FDD
- Cell info  - Intra-frequency cell id - Cell info  - Intra-frequency cell id - Cell info  - Cells for measurement - Intra-frequency measurement quantity - Filter coefficient  - CHOICE mode - Measurement quantity	A1, A2	Default value, this IE is absent.  3 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1.4  7 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1.4  8 Same content as specified for Intra-frequency cell id=2 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1.4  Not Present  Not present  Absence of this IE is equivalent to the default value 0  FDD  CPICH RSCP

- Reporting information for state CELL DCH
- Intra-frequency reporting quantity
- Reporting quantities for active set cells
- SFN-SFN observed time difference type
- 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
- SFN-SFN observed time difference type
- Cell synchronisation information reporting indicator
- Cell identity reporting indicator
- CHOICE mode
- CPICH Ec/N0 reporting indicator
- CPICH RSCP reporting indicator
- Pathloss reporting indicator
- Reporting quantities for detected set cells
- Measurement reporting mode
- Measurement Report Transfer Mode
- Periodic Reporting/Event Trigger Reporting

#### Mode

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

No report **FALSE** 

**TRUE FDD** 

**FALSE** 

TRUE

**FALSE** 

No report

**TRUE** 

TRUE

**FDD** 

**FALSE** 

TRUE **FALSE** 

Not Present

Acknowledged mode RLC

Event trigger

Intra-frequency measurement reporting criteria

3 kinds

1a

Not Present

Monitored set cells

5dB

Not Present

1.0

0.0

Not Present

Not Present

640

4000

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

1b

Active set cells

Not Present

5dB

Not Present

1.0

0.0

Not Present

Not Present

Not Present 640

Not Present

Not Present

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

3

1c

Not Present

Not Present

Not Present Not Present

Not Present

	_	
- Hysteresis		0.0
- Threshold Used Frequency		Not Present
<ul> <li>Reporting deactivation threshold</li> </ul>		Not Present
<ul> <li>Replacement activation threshold</li> </ul>		3
- Time to trigger		640
- Amount of reporting		4
- Reporting interval		4000
- Reporting cell status		
- CHOICE reported cell		Report cell within active set and/or monitored set
		cells on used frequency
- Maximum number of reported cells		3
- Inter-frequency measurement system	A1, A2	
information		
<ul> <li>Inter-frequency cell info list</li> <li>CHOICE Inter-frequency cell removal</li> </ul>		Not propert
- Choice inter-nequency centremoval		Not present (This IE shall be ignored by the UE for SIB11)
- New inter-frequency cells		(This is shall be ignored by the Os for Sibir)
- Inter frequency cell id		4
- Frequency info		7
- CHOICE mode		FDD
- UARFCN uplink(Nu)		Not present
Ortici Ora apinina(iva)		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		
<ul> <li>Primary scrambling code</li> </ul>		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
		Absence of this IE is equivalent to value of the
- Cell info		previous "frequency info" in the list.
- Cell IIIIO		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
. roquonoy milo		Absence of this IE is equivalent to value of the
		previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell
		id=4 with the exception that value for Primary
		scrambling code shall be according to clause titled
		"Default settings for cell No.6 (FDD)" in clause 6.1.4
- Cell for measurement		Not present
- Inter-RAT measurement system information	A1	Not Present
- Inter-RAT measurement system	A2	
information		
- Inter-RAT cell info list		
- 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 Present
- Cell selection and re-selection info		Not Present
- BSIC	l	

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

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

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

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

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

	1	1
- SIB 12 Indicator	A1, A2	TRUE
- FACH measurement occasion info		Not Present
- Measurement control system information		
- Use of HCS		Not used
- Cell selection and reselection quality measureCell		(no data)
- Intra-frequency measurement system information	A1, A2	
- Intra-frequency measurement identity		Not Present
		Absence of this IE is equivalent to default value 1
- Intra-frequency cell info list		·
- CHOICE intra-frequency cell removal		Not present
		(This IE shall be ignored by the UE for SIB11)
- New intra-frequency cells		
- Intra-frequency cell id		1
- Cell info		
- Cell individual offset		Not present
		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not Present
- Read SFN Indicator		FALSE
- CHOICE mode		TDD
- Primary CCPCH info		
- Cell parameters ID		Reference clause 6.1.4 Default settings for cell
- Primary CCPCH TX power		Not Present
- Timeslot list		Not Present
- CHOICE TDD option		
- 3.84 Mcps TDD		
- Timeslot number		Not Present
- Burst type		Not Present
- 1.28 Mcps TDD		
- Timeslot number		Not Present
- Cell Selection and Re-selection info		Not Present
		(The IE shall be absent as this is the serving cell)
- Cell for measurement	A1, A2	Not Present
- Intra-frequency measurement quantity	A1, A2	
- Filter coefficient		Not present
		Absence of this IE is equivalent to the default value 0
- CHOICE mode		TDD
- Measurement quantity list		
- Measurement quantity		P-CCPCH RSCP

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

- Intra-frequency reporting quantity for RACH		Not Present
Reporting		
- Maximum number of reported cells on RACH	1	Not Present
- Reporting information for state CELL_DCH		
- Intra-frequency reporting quantity		
- Reporting quantities for active set cells		
- Cell synchronisation information reporting	-	TRUE
indicator		
- Cell identity reporting indicator	-	TRUE
- CHOICE mode	-	TDD
- Timeslot ISCP reporting indicator		FALSE
- Proposed TSGN reporting required		FALSE
- P-CCPCH RSCP reporting indicator	-	TRUE
- Pathloss reporting indicator	l li	FALSE
- Reporting quantities for monitored set cells		
- Cell synchronisation information reporting		FALSE
indicator		
- Cell identity reporting indicator	-	TRUE
- CHOICE mode		TDD
- Timeslot ISCP reporting indicator		FALSE
- Proposed TSGN reporting required		FALSE
- P-CCPCH RSCP reporting indicator	1 1	TRUE
- Pathloss reporting indicator		FALSE
- Reporting quantities for detected set cells		Not Present
- Measurement reporting mode		Not I room
- Measurement Report Transfer Mode		Acknowledged mode RLC
- Periodical Reporting / Event Trigger Reporting		Event trigger
Mode		2.011 (11990)
-CHOICE report criteria		
- Intra-frequency measurement reporting criteria		
- Parameters required for each event		
- Intra-frequency event identity		1g
- Triggering condition1		Not Present
- Triggering condition2		Not Present
- Reporting Range		Not Present
- cells forbidden to affect reporting range		Not Present
- W(optional in case of 1a,1b)		Not Present
- Hysteresis		0.0
- Threshold used frequency		Not Present
- Reporting deactivation threshold		Q
- Replacement activation threshold	l li	Not Present
- Time to trigger		640
- Amount of reporting		4
- Reporting interval		4000
- Reporting cell status		+000
- CHOICE reported cells		Penort cell within active set and/or monitored cells on
- Of TOTOE Teported cells		Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells		3
- Inter-frequency measurement system information	A1 A2	

		,
- Inter-frequency cell info list	İ	
- CHOICE Inter-frequency cell removal		Not present
		(This IE shall be ignored by the UE for SIB11)
- New inter-frequency cells		
Inter frequency cell id     Frequency info		4
- CHOICE mode		TDD
- UARFCN (Nt)		Reference to table 6.1.2 for Cell 4
- Cell info		
- Cell individual offset		Not present
		Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell		Not present
- Cell individual offset		Not present
- Reference time difference to cell		Absence of this IE is equivalent to default value 0dB Not present
- Read SFN indicator		FALSE
- CHOICE mode		TDD
- Primary CCPCH info		Refer to clause titled "Default settings for cell No.4
		(TDD)" in clause 6.1.4
- Primary CCPCH Tx power		Not present
- TX Diversity Indicator		FALSE
- Cell Selection and Re-selection Info     - Inter frequency cell id		Not present (same values as for serving cell applies) 5
- Frequency info		Not Present
1 requeries into		Absence of this IE is equivalent to value of the previous
		"frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell id=4
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default settings
n		for cell No.5 (TDD)" in clause 6.1.4
- Inter frequency cell id - Frequency info		6 Not Present
- Frequency into		Absence of this IE is equivalent to value of the previous
		"frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell id=4
		with the exception that value for Primary scrambling
		code shall be according to clause titled "Default settings
		for cell No.6 (TDD)" in clause 6.1.4
- Cell for measurement	۸ ،	Not present Not Present
- Inter-RAT measurement system information - Inter-RAT measurement system information	A1 A2	Not Fresent
- Inter-RAT cell info list	72	
- 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 GSM
- CHOICE Radio Access Technology - GSM		GOM
- Cell individual offset		0
- Cell selection and re-selection info		Not Present
- BSIC		
- Base transceiver Station Identity Code (BSIC)		Reference to table 6.1.10 for Cell 9
- Band indicator		According to PICS/PIXIT
- BCCH ARFCN		Reference to table 6.1.10 for Cell 9
- Inter-RAT cell id - CHOICE Radio Access Technology		10 GSM
- GIOICE Naulo Access Technology		GSIVI
- Cell individual offset		0
- Cell selection and re-selection info		Not Present
- BSIC		
- Base transceiver Station Identity Code (BSIC)		Reference to table 6.1.10 for Cell 10
- Band indicator		According to PICS/PIXITs
- BCCH ARFCN		Reference to table 6.1.10 for Cell 10
- Cell for measurement     - Traffic volume measurement system information	A1, A2	Not present Not Present
- Trame volume measurement system intornation	Λι, ΑΖ	INOUT TESETIL

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.

EAGU	I N . B
- FACH measurement occasion info	Not Present
<ul> <li>Measurement control system information</li> </ul>	
- Use of HCS	Not used
- Cell selection and reselection quality measure	CPICH RSCP
- Intra-frequency measurement system	Not Present
information	
- Inter-frequency measurement system	Not Present
information	
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system	Not Present
information	

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

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

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

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

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

- CN Domain system information list	
- CN Domain system information	For Packet-Switched domain
- CN domain identity	PS
1	-
- 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	74401 11
	T.B.D
- NAS (ANSI-41) system information	1.D.U
- CN domain specific DRX cycle length	
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
	INUE
requirement	

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

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

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

#### Contents of System Information Block type 16

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

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

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

Contents of System Information Block type 18

- Idle mode PLMN identities	
- PLMNs of intra-frequency cells list	
- PLMN identity	Set to the same value as indicated in MIB
- PLMNs of inter-frequency cells list	Not present
- PLMNs of inter-RAT cells list	Not present
- Connected mode PLMN identities	Not present

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

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

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

# Contents of System Information Block type 5 (FDD)

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

- Available signature Start Index

- ASC Setting - CHOICE mode

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

1S 34.108 version 4.8.0 Release 4
- 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
TI OI OXIOCOTIOO
- Fixed or Flexible position
- Timing offset
g 5.1351
- TFCS
- CHOICE TFCI signalling
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS complete reconfiguration information
- CHOICE CTFC Size
<ul> <li>CTFC information</li> </ul>
<ul> <li>Power offset information</li> </ul>
<ul> <li>CTFC information</li> </ul>
<ul> <li>Power offset information</li> </ul>
<ul> <li>CTFC information</li> </ul>
<ul> <li>Power offset information</li> </ul>
- CTFC information
- Power offset information
- CTFC information
- Power offset information
- FACH/PCH information
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
<ul><li>Number of TB and TTI List</li><li>Number of Transport blocks</li></ul>
Number of Transport blocks     Number of Transport blocks
Number of Transport blocks     Number of Transport blocks
- Number of Transport blocks

- CHOICE Mode

- CHOICE Logical Channel List

- Transmission time interval

- Semi-static Transport Format information

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

10 ms

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

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

<FFS>

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

<FFS>

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

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

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

<FFS>

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

<FFS>

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

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

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

# Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not Present
	Not i lesent
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
	15
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
	300
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
	16
- CRC size	10
- RACH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
<ul> <li>TFCS complete reconfiguration information</li> </ul>	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
<ul> <li>Power offset information</li> </ul>	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FĎD
- Gain factor ßc	11
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-Channel Number	1/ (A30#1)   1111'B
- Assigned Sub-Charillet Nutribet	
	The first/ leftmost bit of the bit string contains the most
1000 0 11	significant bit of the Assigned Sub-Channel Number.
- ASC Setting	Not Present

- ASC Setting

- CHOICE mode

<ul><li>CHOICE mode</li><li>Available signature Start Index</li><li>Available signature End Index</li><li>Assigned Sub-Channel Number</li></ul>
<ul> <li>ASC Setting</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-Channel Number</li> </ul>
<ul> <li>ASC Setting</li> <li>ASC Setting</li> <li>CHOICE mode</li> <li>Available signature Start Index</li> <li>Available signature End Index</li> <li>Assigned Sub-Channel Number</li> </ul>
- Persistence scaling factor - AC-to-ASC mapping table - AC-to-ASC mapping - 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 Secondary Secondary CCPCH of Secondary CCPCH info - CHOICE mode - Secondary Secondary Secondary CCPCH info - CHOICE mode - Secondary Secondary Secondary CCPCH info - CHOICE mode - Secondary Second
- 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 informationPower offset information

- CTFC information
- Power offset information

- CTFC information
- Power offset information

- CTFC information	l o
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	THOU TOOGHE
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RĹC Size	240
- Number of TB and TTI List	
<ul> <li>Number of Transport blocks</li> </ul>	0
<ul> <li>Number of Transport blocks</li> </ul>	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute - CRC size	230
	16 bit   12 (for PCH)
- Transport Channel Identity - CTCH indicator	FALSE
- PICH info	I ALOL
- 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
Timber of the st	Absence of this IE is equivalent to default value "Flexible"
- Timing offset	Not Present
- TFCS	Absence of this IE is equivalent to default value 0
- TFCS - CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Normal
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	Complete reconliguration
- CHOICE CTFC Size	2 bit
OTEO: (	

2 bit 0 Not Present 1 Not Present 2 Not Present

EACH/DOLLinformation	1
- FACH/PCH information - TFS	(EACH)
11.5	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information - RLC Size	168
1.200.20	108
- 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	INOL
- Period of CTCH allocation (N)	2
- CBS frame offset (K)	0
- CDS Hame Offset (N)	U

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	
- PRACH system information list	Not Present
- Secondary CCPCH system information	
- Secondary CCPCH info	(SCCPCH including two FACHs)
- CHOICE mode	FDD ,
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	Not Present
TT OT OXIDIOTIOS	Absence of this IE is equivalent to default value "TRUE"
- Fixed or Flexible position	Not Present
- I ixed of I lexible position	Absence of this IE is equivalent to default value "Flexible"
Timing offset	90
- Timing offset - TFCS	90
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Noma
	Complete reconfiguration
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	A 1-14
- 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
<ul> <li>Dynamic Transport format information</li> </ul>	
- RLC Size	360
<ul> <li>Number of TB and TTI List</li> </ul>	
- Number of Transport blocks	0
- 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	,
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNŤ	3
- SIB_REP	64
- SIB_POS	26
- SIB POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	, , , , , , , , , , , , , , , , , , , ,
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	36
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18

# Contents of System Information Block type 5 (FDD)

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

- Available signature Start Index

- ASC Setting

- CHOICE mode

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

```
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

10 04.100 Version 4.0.0 Release 4
- CTFC information
- Power offset information
- CTFC information
Power offset information     FACH/PCH information
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
<ul><li>Number of TB and TTI List</li><li>Number of Transport blocks</li></ul>
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
<ul><li>Transmission time interval</li><li>Type of channel coding</li></ul>
- 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
- Fixed of Flexible position
- Timing offset
- TFCS
- CHOICE TFCI signalling
- TFCI Field 1 information
- CHOICE TFCS representation
<ul> <li>TFCS complete reconfiguration information</li> <li>CHOICE CTFC Size</li> </ul>
- 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
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- RLC Size
<ul><li>Number of TB and TTI List</li><li>Number of Transport blocks</li></ul>
Number of Transport blocks     Number of Transport blocks
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List

- CHOICE Logical Channel List

- Transmission time interval

- Semi-static Transport Format information

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

- CTCH indicator

- Transport Channel Identity

PP TS 34.108 version 4.8.0 Release 4	72	ETSI TS 134 108 V4.8.0 (200
- 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 chann	nels
- Dynamic Transport format information	·	
- RLC Size	360	
- Number of TB and TTI List		
- Number of Transport blocks	0	
- Number of Transport blocks	1	
- CHOICE Mode	FDD	
- CHOICE Logical Channel List	ALL	
- Semi-static Transport Format information		
- Transmission time interval	10 ms	
- Type of channel coding	Turbo	
- Rate matching attribute	130	
- CRC size	16bit	
- Transport Channel Identity	14 (for FACH)	
- CTCH indicator	FALSE	
- Secondary CCPCH info	(SCCPCH including two I	FACHs)
- CHOICE mode	FDD	
- Secondary scrambling code	Not Present	
- STTD indicator	FALSE	
- Spreading factor	64	
- Code number	2	
- Pilot symbol existence	FALSE	
- TFCI existence	Not Present	·
Fixed or Flevible position	Not Present	ivalent to default value "TRUE"
- Fixed or Flexible position		ivelent to default value "Flevible"
- Timing offset	90	ivalent to default value "Flexible"
- TFCS	30	
- CHOICE TFCI signalling	Normal	
- TFCI Field 1 information	- Norman	
- CHOICE TFCS representation	Complete reconfiguration	1
- TFCS complete reconfiguration information		
- CHOICE CTFC Size	4 bit	
- CTFC information	0	
<ul> <li>Power offset information</li> </ul>	Not Present	
- CTFC information	1	
- Power offset information	Not Present	
- CTFC information	2	
- Power offset information	Not Present	
- CTFC information	3	
- Power offset information	Not Present	
- CTFC information - Power offset information	4 Not Present	
- FACH/PCH information	Not Present	
- TFS	(FACH)	
- CHOICE Transport channel type	Common transport chann	nels
- Dynamic Transport format information	Common transport charm	1010
- 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	

16 (for FACH) FALSE

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

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

<FFS>

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

<FFS>

## 6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

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

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

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

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

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

Default settings for cell No.1 (TDD):

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

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

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

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

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

#### Cell No.2

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

Cell identity	0000 0000 0000 0000 0000 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 Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in
- Intra-frequency cell id - Cell info		clause 6.1.4  1  Same content as specified for Intra- frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- Intra-frequency cell id - Cell info		3 Same content as specified for Intra- frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info	A2	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		Same content as specified for Inter- frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info		Same content as specified for Inter- frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
Inter frequency cell id     Frequency info		5 Same content as specified for Inter-
- Cell info		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
- Inter frequency cell id - Frequency info		6 Same content as specified for Inter- frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info		Same content as specified for Inter- frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter-RAT cell info list	A2	
- New inter-RAT cells - Inter-RAT cell id - CHOICE <i>Radio Access Technology</i> - GSM		9 GSM Same content as specified for inter-RAT cell
- Inter-RAT cell id		id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b 10

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

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

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

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

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

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

#### Cell No.3

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

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

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

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

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

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

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

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

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

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

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

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

### Cell No.4

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

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

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

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

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

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

	ı	
- 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 fraguency cell id		8
- 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
- Inter-RAT cell info list	A2	
••••		
- New inter-RAT cells		
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
- GSM		Same content as specified for inter-RAT cell
		id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-RAT cell id		10
- CHOICE Radio Access Technology		GSM
- GSM		Same content as specified for inter-RAT cell
		id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b
	•	

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

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

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

### Cell No.5

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

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

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

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

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

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

Inter frequency cell id		8
- 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
- Inter-RAT cell info list	A2	
- New inter-RAT cells		
- Inter-RAT cell id		9
- CHOICE Radio Access Technology		GSM
- GSM		Same content as specified for inter-RAT cell id=9 in
- GOIVI		SIB11 for Cell 1 in sub-clause 6.1.0b
lates DAT sellid		
- Inter-RAT cell id		10
- CHOICE Radio Access Technology		GSM
- GSM		Same content as specified for inter-RAT cell id=10
		in SIB11 for Cell 1 in sub-clause 6.1.0b
	l .	

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

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

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

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

- Intra-frequency measurement system information	
- New intra-frequency cells	
- Intra-frequency cell id	5
• •	
- Cell info	Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall
Intro fraguency cell id	be according to clause titled "Default settings for cell No.5 (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.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
- Inter-frequency measurement system information	
Naviatas francias acida	
- New inter-frequency cells	
- Inter-frequency cell id	1
- Frequency info	
- UARFCN downlink(Nt)	Reference to table 6.1.7 for Cell 1
- Cell info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- Inter-frequency cell id	2
- Frequency info	Not Present Absence of this IE is equivalent to value of the previous "frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (TDD)" in clause 6.1.4
- Inter-frequency cell id	3
- Inter-frequency cell id - Frequency info	Not Present
- Frequency inio	Absence of this IE is equivalent to value of the previous "frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.3 (TDD)" in clause 6.1.4
- Inter-frequency cell id	7
- Frequency info	Not Present
1 Toquotioy iiilo	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
-12	Absence of this IE is equivalent to value of the previous "frequency info" in the list.

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

### Cell No.6

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

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

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

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

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

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

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

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

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

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

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

- Intra-frequency measurement system information	
Now intro frogues as as lie	
- New intra-frequency cells	
- Intra-frequency cell id	6
- Cell info	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.6
	(TDD)" in clause 6.1.4
Intro francisco de II id	(100) III clause 0.1.4
- 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	5
	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.5 (TDD)" in
	clause 6.1.4
- Inter-frequency measurement system	
information	
iniormation	
- New inter-frequency cells	
<ul> <li>Inter-frequency cell id</li> </ul>	1
- Frequency info	
- UARFCŇ downlink(Nt)	Reference to table 6.1.7 for Cell 1
- Cell info	Same content as specified for Inter-frequency cell id=4 in
- Oeli 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.1 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	2
- Frequency info	Not Present
' '	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	
- Cell IIIIO	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.2 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	3
- Frequency info	Not Present
1 roqueries mile	Absence of this IE is equivalent to value of the previous
0 11: (	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.3 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	7
- Frequency info	Not Present
i requerity into	
	Absence of this IE is equivalent to value of the previous
0.11.4	"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 fraguency cell :-	
- Inter-frequency cell id	8
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
	•

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

### Cell No.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 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 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

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	
- New inter-frequency cells	
- Inter frequency cell id	4
- Frequency info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id	5
- Frequency info	Same content as specified for Inter-frequency cell id=5 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id	6
- Frequency info	Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b

Default settings for cell No.8 (TDD):

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

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

- 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 exception that value for Primary scrambling code is be according to clause titled "Default settings for cell info"  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 consistent in the exception that value for Primary scra	hall o.8 de cell
- Intra-frequency cell id - Cell info  8 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with exception that value for Primary scrambling code is be according to clause titled "Default settings for cell N (TDD)" in clause 6.1.4  - Intra-frequency cell id - Cell info  8 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 concepts and in the exception that value for Primary scrambling concepts a	hall o.8 de cell
- 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 exception that value for Primary scrambling code is be according to clause titled "Default settings for cell N (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 concepts with the exception that value for Primary scrambling concepts and in the exception that value for Primary scrambling concepts according to clause titled "Default settings for No.1 (TDD)" in clause 6.1.4  - Intra-frequency cell id - Cell info  Same content as specified for Intra-frequency cell id=2 (SIB11 for Cell 1 in sub-clause 6.1.0b)	hall o.8 de cell
- 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 or shall be according to clause titled "Default settings for No.1 (TDD)" in clause 6.1.4  - Intra-frequency cell id - Cell info  Same content as specified for Intra-frequency cell id=2 SIB11 for Cell 1 in sub-clause 6.1.0b	de cell
(neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling content shall be according to clause titled "Default settings for No.1 (TDD)" in clause 6.1.4  - Intra-frequency cell id - Cell info  Same content as specified for Intra-frequency cell id=2 SIB11 for Cell 1 in sub-clause 6.1.0b	de cell
- Cell info  Same content as specified for Intra-frequency cell id=2 SIB11 for Cell 1 in sub-clause 6.1.0b	in
SIB11 for Cell 1 in sub-clause 6.1.0b	in
l la	
- Intra-frequency cell id	
- Cell info  Same content as specified for Intra-frequency cell id=3  SIB11 for Cell 1 in sub-clause 6.1.0b	ın
- Intra-frequency cell id 7	
- Cell info  Same content as specified for Intra-frequency cell id=7  SIB11 for Cell 1 in sub-clause 6.1.0b	in
- 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  SIB11 for Cell 1 in sub-clasue 6.1.0b	
- Cell info Same content as specified for Inter-frequency cell id=4 SIB11 for Cell 1 in sub-clasue 6.1.0b	in
- Inter frequency cell id 5	
- Frequency info Same content as specified for Inter-frequency cell id=5 SIB11 for Cell 1 in sub-clasue 6.1.0b	
- Cell info Same content as specified for Inter-frequency cell id=5 SIB11 for Cell 1 in sub-clasue 6.1.0b	in
- Inter frequency cell id 6	
- Frequency info Same content as specified for Inter-frequency cell id=6 SIB11 for Cell 1 in sub-clasue 6.1.0b	in
- Cell info  Same content as specified for Inter-frequency cell id=6  SIB11 for Cell 1 in sub-clasue 6.1.0b	in

## 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

# 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
MOTE: This shall be been the	- 400 -1	D 4 4bb	

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 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		im output power for the the MS under test
RF level	dBm	-48	-54
NOTE: Both cells fulfil TS 25.304, 5.2.6.1.4 and TS 25.133, 8.1.2.5			

Table 6.1.11: Default settings for a non-suitable cell

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

# 6.2 Number of neighbour cells

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

### 6.2.1 Basic Network

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

# 6.2.2 Soft Handover Network (FDD)

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

### 6.2.3 Hard Handover Network

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

## 6.2.4 'Roaming' Network

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

### 6.3 Cell/BS codes etc

See clause 6.1.

# 6.4 Routing/location area

See clause 6.1.

# 6.5 Network options settings

See clause 6.1.

### 6.6 Power control mode

### 6.6.1 Downlink Power Control

### 6.6.1.1 Outer Loop Power Control

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

### 6.6.1.2 Inner Loop Power Control

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

## 6.6.2 Uplink Power Control

### 6.6.2.1 Outer Loop Power Control

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

### 6.6.2.2 Inner Loop Power Control (FDD)

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

# 6.7 Tx Diversity modes

The reference settings for Tx Diversity Mode shall be

## 6.7.1 Non-Diverse Operation

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

## 6.7.2 Diverse Operation

### 6.7.2.1 Diverse Operation (FDD mode)

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

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

### 6.7.2.2 Diverse Operation (TDD mode)

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

### 6.7.2.2.1 3.84.Mcps option

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

### 6.7.2.2.2 1.28 Mcps option

Physical channel type	Open loop TxDiversity		Closed loop TxDiversity
	TSTD	Block STTD	
P-CCPCH	X	X	-
DwPCH	X	_	_
DPCH	X	_	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
LII. compressed made method	SF/2	DE, OE OF BOTH DE and OE
UL compressed mode method		
DL compressed mode method	SF/2	
Scrambling code change	No	
RPP (Recovery period power control	0	
mode)		
ITP (Initial transmission power control	0	
mode)		

## 6.8.1.2 Inter Frequency TDD measurement

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

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

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

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

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

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

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

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

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

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	
TGPL1 (Transmission Gap Pattern	8	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & 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)	0	
TGPL1 (Transmission Gap Pattern	8	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & 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)	0	0	0	
TGPL1 (Transmission Gap Pattern Length)	12	8	8	
TGPL2 (Transmission Gap Pattern Length)	-	-	-	Only one pattern in use.
TGCFN (Transmission Gap Connection Frame Number):	(Current CFN + (252 – TTI/10msec)) mod 256	(Current CFN + (254 – TTI/10msec)) mod 256	(Current CFN + (250 – TTI/10msec)) mod 256	Defined by higher layers
UL/DL compressed mode selection	DL, UL or DL & 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 purpose of the reference radio bearer configurations is to ensure interoperability of UE's in different regions and networks.

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

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

#### 6.10.1 QoS Architecture and RAB attributes

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

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

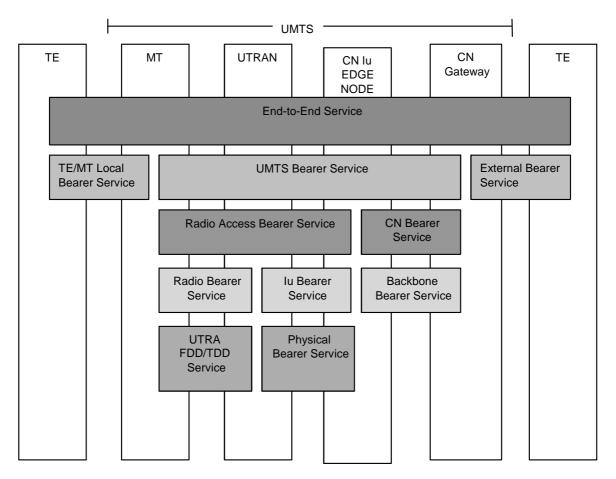


Figure 6.10.1.1: UMTS QoS Architecture

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

- Traffic class;

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

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

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

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

Table 6.10.1.1: Traffic classes

## 6.10.2 RAB and signalling RB for FDD

## 6.10.2.1 RABs and signalling RBs

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

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

Table 6.10.2.1.1: Prioritised RABs.

#	Traffic class [15]	SSD [15]	Max. rate, kbps	CS/PS
1	Conversational	Speech	UL:12.2 DL:12.2	CS
1a	Conversational	Speech	UL:(12.2 7.95 5.9	CS
			4.75) DL:(12.2	
			7.95 5.9 4.75)	
2	Conversational	Speech	UL:10.2 DL:10.2	CS
2a	Conversational	Speech	UL:(10.2, 6.7, 5.9,	CS
			4.75) DL:(10.2,	
			6.7, 5.9, 4.75)	
3	Conversational	Speech	UL:7.95 DL:7.95	CS
4	Conversational	Speech	UL:7.4 DL:7.4	CS
4a	Conversational	Speech	UL:(7.4, 6.7, 5.9,	CS
			4.75) DL:(7.4, 6.7,	
_		0 1	5.9, 4.75)	00
5	Conversational	Speech	UL:6.7 DL:6.7	CS CS
6	Conversational	Speech	UL:5.9 DL:5.9	
7	Conversational	Speech	UL:5.15 DL:5.15	CS
8	Conversational Conversational	Speech	UL:4.75 DL:4.75	CS CS
9		Unknown Unknown	UL:28.8 DL:28.8	CS
11	Conversational Conversational	Unknown	UL:64 DL:64 UL:32 DL:32	CS
11a	Conversational	Unknown	UL:8 DL:8	PS
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	OTINTOWIT	OL.37.0 DL.37.0	00
15a	Streaming	Unknown	UL:16 DL:64	PS
16	Void	OTIKITOWIT	0L.10 DL.04	10
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
37	Reserved for future use			
38	Reserved for future use			

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.
- 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
- 62) Reserved for future use.

#### Combinations on DSCH and DPCH

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

#### Combinations on SCCPCH

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

#### Combinations on PRACH

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

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

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

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

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

## 6.10.2.4 Typical radio parameter sets

## 6.10.2.4.1 Combinations on DPCH

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

6.10.2.4.1.1.1 Uplink

6.10.2.4.1.1.1 Transport channel parameters

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

Higher layer	RAB/signalling RE	3	SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio 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	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type		DCH				
	TB sizes, bit	TB sizes, bit		148 (alt 0, 148)			
	TFS	TF0, bits	0x148 (alt 1x0)				
		TF1, bits		1x1	148		
	TTI, ms	TTI, ms		80			
	Coding type	Coding type		CC 1/3			
	CRC, bit			16			
	Max number of bi	Max number of bits/TTI before rate		516			
	matching						
	Uplink: Max numb			6	5		
	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	RAB/signalling RB		SRB#2	SRB#3	SRB#4	
	User of Radio Bear	rer	RRC	RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel typ	Logical channel type		DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		1700	1600	1600	1600	
	AMD/UMD PDU he	AMD/UMD PDU header, bit		16	16	16	
MAC	MAC header, bit MAC multiplexing		4	4	4	4	
			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		1x1	48		
	TTI, ms		80				
	Coding type		CC 1/3				
	CRC, bit			1	6		
	Max number of bits	Max number of bits/TTI before rate		51	16		
	matching						
	RM attribute				·185		
NOTE: alterna	ative parameters enable	e the measurement "	transport chan	nel BLER" in th	ne UE.		

### 6.10.2.4.1.1.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

## 6.10.2.4.1.1.2.2 Physical channel parameters

DPCH Downlink			
	DTX position		N/A (SingleTrCH)
	Minimum spreading fac	tor	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	RLC Logical channel type		DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, b	it	136	128	128	128	
	Max data rate, b	ps	3400	3200	3200	3200	
	AMD/UMD PDU	header, bit	8	16	16	16	
MAC	MAC header, bi	MAC header, bit		4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type		DCH				
	TB sizes, bit	TB sizes, bit		148 (alt 0, 148)			
	TFS	TF0, bits		0x148 (alt 1x0)			
		TF1, bits		1x <sup>2</sup>	148		
	TTI, ms	TTI, ms		40			
	Coding type		CC 1/3				
	CRC, bit		16				
	Max number of	oits/TTI before rate		5	16		
	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	gher layer RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Bear	User of Radio Bearer		RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		3400	3200	3200	3200	
	AMD/UMD PDU he	eader, bit	8	16	16	16	
MAC	MAC header, bit	MAC header, bit		4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	TrCH type		DCH			
	TB sizes, bit	TB sizes, bit		148 (alt 0, 148) (note)			
	TFS	TFS TF0, bits		0x148 (alt 1x0) (note)			
		TF1, bits		1x1	48		
	TTI, ms	TTI, ms		40			
	Coding type	Coding type		CC 1/3			
	CRC, bit			1	6		
	Max number of bits/TTI before rate			51	16		
		matching					
	RM attribute				-230		
NOTE: altern	ative parameters enable	e the measurement "	transport chan	nel BLER" in th	ne UE.		

#### 6.10.2.4.1.2.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

## 6.10.2.4.1.2.2.2 Physical channel parameters

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

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

6.10.2.4.1.3.1 Uplink

6.10.2.4.1.3.1.1 Transport channel parameters

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

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

## 6.10.2.4.1.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

## 6.10.2.4.1.3.1.2 Physical channel parameters

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

## 6.10.2.4.1.3.2 Downlink

## 6.10.2.4.1.3.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Beare	er	RRC	RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel type	)	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		13600	12800	12800	12800	
	AMD/UMD PDU hea	ader, bit	8	16	16	16	
MAC	MAC header, bit		4	4	4	4	
	MAC multiplexing	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type	TrCH type		DCH			
	TB sizes, bit			148 (alt 0, 148) (note)			
	TFS	TF0, bits		0x148 (alt	1x0) (note)		
		TF1, bits		1x'	148		
	TTI, ms		10				
	Coding type	ig type		CC 1/3			
	CRC, bit			16			
	Max number of bits/TTI before rate matching			5	16		
NOTE: alterna	ative parameters enable	the measurement '	transport chan	nel BLER" in th	ne UE.		

## 6.10.2.4.1.3.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

## 6.10.2.4.1.3.2.2 Physical channel parameters

DPCH Downlink	DTX position		N/A (SingleTrCH)
	Minimum spreading fa	actor	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/Signallir	ng RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical chan	nel type		DTCH	
	RLC mode		TM	TM	TM
	Payload sizes	s, bit	39, 81 (alt. 0, 39, 81)	103	60
	Max data rate	e, bps		12200	•
	TrD PDU hea	ader, bit		0	
MAC	MAC header,	, bit		0	
	MAC multiple	exing		N/A	
_ayer 1	TrCH type		DCH	DCH	DCH
	ТВ	sizes, bit	39, 81 (alt. 0, 39, 81)	103	60
	TFS 1	ΓF0, bits	0x81(alt. 1x0) (note)	0x103	0x60
		ΓF1, bits	1x39	1x103	1x60
		ΓF2, 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 channel codir	of bits/TTI after	303	333	136
	Uplink: Max r	number of bits/radio rate matching	152	167	68
	RM attribute	<u> </u>	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		0.84

6.10.2.4.1.4.2 Downlink

6.10.2.4.1.4.2.1 Transport channel parameters

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

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.4.2.1.3 TFCS

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

#### 6.10.2.4.1.4.2.2 Physical channel parameters

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

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

#### 6.10.2.4.1.4a.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3	
RLC	Logical channel type		DTCH		
	RLC mode	TM	TM	TM	
	Payload sizes, bit	39, 42, 55, 75, 81 (alt. 0, 39, 81)	53, 63, 84, 103	60	
	Max data rate, bps		12200		
	TrD PDU header, bit		0		
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type	DCH	DCH	DCH	
	TB sizes, bit	39, 42, 55, 75, 81 (alt. 0, 39, 42, 55, 75, 81)	53, 63, 84, 103	60	
	TFS TF0, bits	0x81(alt. 1x0) (note)	0x103	0x60	
	TF1, bits	1x39	1x53	1x60	
	TF2 bits	1x42	1x63	N/A	
	TF3, bits	1x55	1x84	N/A	
	TF4, bits	1x75	1x103	N/A	
	TF5, bits	1x81	N/A	N/A	
	TTI, ms	20	20	20	
	Coding type	CC 1/3	CC 1/3	CC 1/2	
	CRC, bit	12	N/A	N/A	
	Max number of bits/TTI after channel coding	303	333	136	
	Uplink: Max number of bits/radio frame before rate matching	152	167	68	
	RM attribute	180-220	170-210	215-256	

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

### 6.10.2.4.1.4a.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,		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	g factor	128
	DPCCH	Number of TFCI bits/slot	0
		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	34
		Number of data bits/frame	510

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

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

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.5.1.1.3 TFCS

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

#### 6.10.2.4.1.5.1.2 Physical channel parameters

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

6.10.2.4.1.5.2 Downlink

6.10.2.4.1.5.2.1 Transport channel parameters

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

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.5.2.1.3 TFCS

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

#### 6.10.2.4.1.5.2.2 Physical channel parameters

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

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

6.10.2.4.1.5a.1 Uplink

6.10.2.4.1.5a.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3	
RLC	Logical channel type		DTCH		
	RLC mode	TM	TM	TM	
	Payload sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40	
	Max data rate, bps		10200		
	TrD PDU header, bit		0		
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type	DCH	DCH	DCH	
	TB sizes, bit	39, 42, 55, 58, 65 (alt. 0, 39, 42, 55, 58, 65)	53, 63, 76, 99	40	
	TFS TF0, bits	0x65 (alt. 1x0) (note)	0x99	0x40	
	TF1, bits	1x39	1x53	1x40	
	TF2, bits	1x42	1x63	N/A	
	TF3, bits	1x55	1x76	N/A	
	TF4, bits	1x58	1x99	N/A	
	TF5, bits	1x65	N/A	N/A	
	TTI, ms	20	20	20	
	Coding type	CC 1/3	CC 1/3	CC 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	rate, bps		10 200	•
	TrD PDU I	neader, bit		0	
MAC	MAC head	ler, bit		0	
	MAC multi	plexing		N/A	
Layer 1	TrCH type		DCH	DCH	DCH
	TB sizes, I	oit	0, 39, 42, 55, 58, 65	0, 53, 63, 76, 99	40
	TFS	TF0, bits	1x0 (note 2)	0x99	0x40
	(note 1)	TF1, bits	1x39	1x53	1x40
		TF2, bits	1x42	1x63	N/A
		TF3, bits	1x55	1x76	N/A
		TF4, bits	1x58	1x99	N/A
		TF5, bits	1x65	N/A	N/A
	TTI, ms		20	20	20
	Coding typ	oe	CC 1/3	CC 1/3	CC ½
	CRC, bit		12	N/A	N/A
	Max numb	er of bits/TTI after oding	255	321	96
	RM attribu	te	180-220	170-210	215-256

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.5a.2.1.3 TFCS

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

## 6.10.2.4.1.5a.2.2 Physical channel parameters

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

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

6.10.2.4.1.6.1 Uplink

6.10.2.4.1.6.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.6.1.1.3 TFCS

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

## 6.10.2.4.1.6.1.2 Physical channel parameters

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

6.10.2.4.1.6.2 Downlink

6.10.2.4.1.6.2.1 Transport channel parameters

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

Higher layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical ch	annel type	DT	CH
	RLC mode	9	TM	TM
	Payload s	izes, bit	0 39	84
			75	
	Max data	rate, bps	79:	50
	TrD PDU I	header, bit	C	)
MAC	MAC header, bit		0	
	MAC mult	iplexing	N/A	
Layer 1	TrCH type	•	DCH	DCH
	TB sizes,	bit	0	84
			39	
			75	
	TFS	TF0, bits	1x0 (note 2)	0x84
	(note 1)	TF1, bits	1x39	1x84
		TF2, bits	1x75	N/A
	TTI, ms		20	20
	Coding type	ре	CC 1/3	CC 1/3
	CRC, bit		12	N/A
		per of bits/TTI after channel coding	285	276
	RM attribu	ite	180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.6.2.1.3 TFCS

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

## 6.10.2.4.1.6.2.2 Physical channel parameters

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

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

6.10.2.4.1.7.1 Uplink

6.10.2.4.1.7.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTO	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 61 (alt. 0, 39, 61)	87	
	Max data rate, bps	740	7400	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A	A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 61 (alt. 0, 39, 61)	87	
	TFS TF0, bits	0x61 (alt. 1x0) (note)	0x87	
	TF1, bits	1x39	1x87	
	TF2, bits	1x61	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	243	285	
	Uplink: Max number of bits/radio frame before rate matching	122	143	
	RM attribute	180-220	170-210	
	In case of using this alternative, CRC parity bits are of TrBlks are 1 even if there is no data on RAB subf			

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.7.1.1.3 TFCS

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

## 6.10.2.4.1.7.1.2 Physical channel parameters

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

6.10.2.4.1.7.2 Downlink

6.10.2.4.1.7.2.1 Transport channel parameters

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

Higher layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DT	CH
	RLC mode		TM	TM
	Payload si	zes, bit	0	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 attribute		180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.7.2.1.3 TFCS

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

## 6.10.2.4.1.7.2.2 Physical channel parameters

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

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

6.10.2.4.1.7a.1 Uplink

6.10.2.4.1.7a.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.7a.1.1.3 TFCS

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

## 6.10.2.4.1.7a.1.2 Physical channel parameters

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

6.10.2.4.1.7a.2 Downlink

6.10.2.4.1.7a.2.1 Transport channel parameters

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

Higher layer	RAB/Sign	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTCH	
	RLC mod	e	TM	TM
	Payload s	sizes, bit	0, 39, 42, 55, 58, 61	53, 63, 76, 87
	Max data	rate, bps	740	00
	TrD PDU	header, bit	0	
MAC	MAC hea	der, bit	0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes,	bit	0, 39, 42, 55, 58, 61	53, 63, 76, 87
	TFS	TF0, bits	1x0 (note 2)	0x87
	(note 1)	TF1, bits	1x39	1x53
		TF2, bits	1x42	1x63
		TF3, bits	1x55	1x76
		TF4, bits	1x58	1x87
		TF5, bits	1x61	N/A
	TTI, ms		20	20
	Coding type		CC 1/3	CC 1/3
	CRC, bit		12	N/A
		ber of bits/TTI after channel coding	243	285
	RM attribute		180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.7a.2.1.3 TFCS

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

## 6.10.2.4.1.7a.2.2 Physical channel parameters

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

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

6.10.2.4.1.8.1 Uplink

6.10.2.4.1.8.1.1 Transport channel parameters

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

Higher layer	RAB/Sig	nalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTCH	
0	RLC mod		TM	TM
	Payload	sizes, bit	39, 58 (alt. 0, 39, 58)	76
	Max data	a rate, bps	670	00
	TrD PDU	J header, bit	0	
MAC	MAC hea	ader, bit	0	
	MAC multiplexing		N/A	A
Layer 1	TrCH type		DCH	DCH
	TB sizes, bit		39, 58 (alt. 0, 39, 58)	76
	TFS	TF0, bits	0x58 (alt. 1x0) (note)	0x76
		TF1, bits	1x39	1x76
		TF2, bits	1x58	N/A
	TTI, ms		20	20
	Coding type		CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max number of bits/TTI after channel coding Uplink: Max number of bits/radio frame before rate matching		234	252
			117	126
	RM attribute		180-220	170-210
		sing this alternative, CRC parity bits are e 1 even if there is no data on RAB subfle		•

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.8.1.1.3 TFCS

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

#### 6.10.2.4.1.8.1.2 Physical channel parameters

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

6.10.2.4.1.8.2 Downlink

6.10.2.4.1.8.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type	DTO	CH
	RLC mode	TM	TM
	Payload sizes, bit	0 39	76
	Max data rate, bps TrD PDU header, bit	58 670 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 attribute	180-220	170-210

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

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

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

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.8.2.1.3 TFCS

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

## 6.10.2.4.1.8.2.2 Physical channel parameters

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

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

6.10.2.4.1.9.1 Uplink

6.10.2.4.1.9.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.9.1.1.3 TFCS

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

## 6.10.2.4.1.9.1.2 Physical channel parameters

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

6.10.2.4.1.9.2 Downlink

6.10.2.4.1.9.2.1 Transport channel parameters

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

Higher layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical ch	annel type	DTCH		
	RLC mode	)	TM	TM	
	Payload si	zes, bit	0 39 55	63	
	Max data	rate, bps	59	900	
	TrD PDU I	neader, bit		0	
MAC	MAC header, bit			0	
	MAC multi	plexing	N/A		
Layer 1	TrCH type		DCH	DCH	
	TB sizes, I	pit	0 39 55	63	
	TFS	TF0, bits	1x0 (note 2)	0x63	
	(note 1)	TF1, bits	1x39	1x63	
		TF2, bits	1x55	N/A	
	TTI, ms	•	20	20	
	Coding typ	oe	CC 1/3	CC 1/3	
	CRC, bit		12	N/A	
	Max number of bits/TTI after channel coding		225	213	
	RM attribu	te	180-220	170-210	

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.9.2.1.3 TFCS

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

## 6.10.2.4.1.9.2.2 Physical channel parameters

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

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

SRBs for DCCH

6.10.2.4.1.10.1 Uplink

6.10.2.4.1.10.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTCH		
	RLC mode	TM	TM	
	Payload sizes, bit	39, 49 (alt. 0, 39, 49)	54	
	Max data rate, bps	5150		
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A	N/A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 49 (alt. 0, 39, 49)	54	
	TFS TF0, bits	0x49 (alt. 1x0) (note)	0x54	
	TF1, bits	1x39	1x54	
	TF2, bits	1x49	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	207	186	
	Uplink: Max number of bits/radio frame before rate matching	104	93	
	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			

6.10.2.4.1.10.1.1.2 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 channel type		DTCH	
	RLC mode	)	TM	TM
	Payload si	zes, bit	0	54
			39	
			49	
	Max data	rate, bps	51	50
	TrD PDU I	neader, bit		0
MAC	MAC header, bit		0	
	MAC multi	plexing	N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes, I	oit	0	54
			39	
			49	
	TFS	TF0, bits	1x0 (note 2)	0x54
	(note 1)	TF1, bits	1x39	1x54
		TF2, bits	1x49	N/A
	TTI, ms		20	20
	Coding typ	oe e	CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max number of bits/TTI after channel coding		207	186
	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).

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

See clause 6.10.2.4.1.1.2.1.1

#### 6.10.2.4.1.10.2.1.3 TFCS

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

## 6.10.2.4.1.10.2.2 Physical channel parameters

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

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

6.10.2.4.1.11.1 Uplink

6.10.2.4.1.11.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
RĹC	Logical channel type	DTO	CH
	RLC mode	TM	TM
	Payload sizes, bit	39, 42 (alt. 0, 39, 42)	53
	Max data rate, bps	475	50
	TrD PDU header, bit	0	
ЛАC	MAC header, bit	0	
	MAC multiplexing	N/A	A
ayer 1	TrCH type	DCH	DCH
-	TB sizes, bit	39, 42 (alt. 0, 39, 42)	53
	TFS TF0, bits	0x42 (alt. 1x0) (note)	0x53
	TF1, bits	1x39	1x53
	TF2, bits	1x42	N/A
	TTI, ms	20	20
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	186	183
	Uplink: Max number of bits/radio frame before	93	92
	rate matching		
	RM attribute	180-220	170-210

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

See clause 6.10.2.4.1.1.1.1

#### 6.10.2.4.1.11.1.3 TFCS

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

## 6.10.2.4.1.11.1.2 Physical channel parameters

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

6.10.2.4.1.11.2 Downlink

6.10.2.4.1.11.2.1 Transport channel parameters

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

Higher layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical ch	annel type	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 multiplexing		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	nalling RB	RAB
RLC	Logical	channel type	DTCH
	RLC mo	de	TM
	Payload	sizes, bit	576
	Max data	a rate, bps	28800
	TrD PDU	J header, bit	0
MAC	MAC he	ader, bit	0
	MAC 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 e	16
	Max number of bits/TTI after channel coding		3564
	RM attril	bute	160-200

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.12.2.1.3 TFCS

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

## 6.10.2.4.1.12.2.2 Physical channel parameters

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

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

for DCCH

6.10.2.4.1.13.1 Uplink

6.10.2.4.1.13.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.13.1.1.3 TFCS

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

### 6.10.2.4.1.13.1.2 Physical channel parameters

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

6.10.2.4.1.13.2 Downlink

6.10.2.4.1.13.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.13.2.1.3 TFCS

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

# 6.10.2.4.1.13.2.2 Physical channel parameters

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

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

6.10.2.4.1.14.1 Uplink

6.10.2.4.1.14.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1

## 6.10.2.4.1.13.1.1.3 TFCS

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

### 6.10.2.4.1.14.1.2 Physical channel parameters

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

6.10.2.4.1.14.2 Downlink

6.10.2.4.1.14.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.14.2.1.3 TFCS

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

# 6.10.2.4.1.14.2.2 Physical channel parameters

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

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

6.10.2.4.1.15.1 Uplink

6.10.2.4.1.15.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.15.1.1.3 TFCS

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

### 6.10.2.4.1.15.1.2 Physical channel parameters

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

6.10.2.4.1.15.2 Downlink

6.10.2.4.1.15.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

# 6.10.2.4.1.15.2.1.3 TFCS

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

# 6.10.2.4.1.15.2.2 Physical channel parameters

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

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

for DCCH

6.10.2.4.1.16.1 Uplink

6.10.2.4.1.16.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.16.1.1.3 TFCS

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

## 6.10.2.4.1.16.1.2 Physical channel parameters

DPCH	Min spreading factor	32
Uplink	Max number of DPDCH data bits/radio frame	1200
	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/Si	gnalling RB	RAB
RLC	Logical	channel type	DTCH
	RLC mode		TM
	Payload	d sizes, bit	576
	Max da	ta rate, bps	28800
	TrD PD	U header, bit	0
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB size	s, 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	ink 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	RAB/Signalling RB	RAB
layer		
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	8000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TTI, ms	40
	Coding type	TC (alt. CC 1/3)
	CRC, bit	16
	Max number of bits/TTI after channel coding	1068 (alt. 1080)
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.23.2.1.3 TFCS

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

## 6.10.2.4.1.23.2.2 Physical channel parameters

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

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

**DCCH** 

6.10.2.4.1.23a.1 Uplink

6.10.2.4.1.23a.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

# 6.10.2.4.1.23a.1.1.3 TFCS

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

## 6.10.2.4.1.23a.1.2 Physical channel parameters

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

6.10.2.4.1.23a.2 Downlink

6.10.2.4.1.23a.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB		RAB
RLC	Logical	channel type	DTCH
	RLC mo	de	AM
	Payload	sizes, bit	320
	Max data	a rate, bps	8000
	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
	TTI, ms		40
	Coding t	уре	CC 1/3 (alt. TC)
	CRC, bit	t	16
	Max number of bits/TTI after channel coding		1080 (alt. 1068)
	RM attril	oute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.23a.2.1.3 TFCS

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

# 6.10.2.4.1.23a.2.2 Physical channel parameters

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

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

for DCCH

6.10.2.4.1.23b.1 Uplink

6.10.2.4.1.23b.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23b.1.1.3 TFCS

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

## 6.10.2.4.1.23b.1.2 Physical channel parameters

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

6.10.2.4.1.23b.2 Downlink

6.10.2.4.1.23b.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23b.2.1.3 TFCS

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

## 6.10.2.4.1.23b.2.2 Physical channel parameters

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

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

for DCCH

6.10.2.4.1.23c.1 Uplink

6.10.2.4.1.23c.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23c.1.1.3 TFCS

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

#### 6.10.2.4.1.23c.1.2 Physical channel parameters

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

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

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

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

# 6.10.2.4.1.23c.2.1.2 Transport channel parameters for 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	1062
	before rate matching	
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.23d.1.1.3 TFCS

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

## 6.10.2.4.1.23d.1.2 Physical channel parameters

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

6.10.2.4.1.23d.2 Downlink

6.10.2.4.1.23d.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.23d.2.1.3 TFCS

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

#### 6.10.2.4.1.23d.2.2 Physical channel parameters

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

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.27.2.1.3 TFCS

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

#### 6.10.2.4.1.27.2.2 Physical channel parameters

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

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

SRBs for DCCH

6.10.2.4.1.28.1 Uplink

6.10.2.4.1.28.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	128000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	8460
	Uplink: Max number of bits/radio frame before rate matching	4230
	RM attribute	120-160

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.28.1.1.3 TFCS

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

#### 6.10.2.4.1.28.1.2 Physical channel parameters

DPCH	Min spreading factor	8
Uplink	Max number of DPDCH data bits/radio	4800
	frame	
	Puncturing Limit	0.96

6.10.2.4.1.28.2 Downlink

See clause 6.10.2.4.1.27.2.

6.10.2.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.2.4.1.29.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.29.2 Downlink

6.10.2.4.1.29.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	144000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	9x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	9516
	RM attribute	140-180

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.29.2.1.3 TFCS

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

#### 6.10.2.4.1.29.2.2 Physical channel parameters

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

6.10.2.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps

SRBs for DCCH

6.10.2.4.1.30.1 Uplink

6.10.2.4.1.30.1.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	144000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	9 x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	9516
	Uplink: Max number of bits/radio frame before 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		OPDCH	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	RAB/Signalling RB	RAB
layer		
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	12x336
	TF6, bits	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	9600
	frame	
	Number of DPDCH	1
	Puncturing Limit	0.72

6.10.2.4.1.34.2 Downlink

See clause 6.10.2.4.1.32.2.

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

SRBs for DCCH

6.10.2.4.1.35.1 Uplink

See clause 6.10.2.4.1.26.1.

6.10.2.4.1.35.2 Downlink

6.10.2.4.1.35.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.35.2.1.3 TFCS

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

#### 6.10.2.4.1.35.2.2 Physical channel parameters

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

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

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

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

### 6.10.2.4.1.38.1.1.4 TFCS

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

## 6.10.2.4.1.38.1.2 Physical channel parameters

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

6.10.2.4.1.38.2 Downlink

6.10.2.4.1.38.2.1 Transport channel parameters

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

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

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

## 6.10.2.4.1.38.2.1.4 TFCS

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

## 6.10.2.4.1.38.2.2 Physical channel parameters

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

6.10.2.4.1.38a Conversational / speech / 12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0

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

6.10.2.4.1.38a.1 Uplink

6.10.2.4.1.38a.1.1 Transport channel parameters

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

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

# 6.10.2.4.1.38a.1.1.4 TFCS

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

### 6.10.2.4.1.38a.1.2 Physical channel parameters

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

6.10.2.4.1.38a.2 Downlink

6.10.2.4.1.38a.2.1 Transport channel parameters

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

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	0
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
-	TB sizes, bit	336
	TFS TF0, bits	0x336
	TTI, ms	20
	Coding type	CC
	CRC, bit	16
	Max number of bits/TTI after channel coding	0
	RM attribute	130-170

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

See clause 6.10.2.4.1.2.2.1.1

# 6.10.2.4.1.38a.2.1.4 TFCS

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

# 6.10.2.4.1.38a.2.2 Physical channel parameters

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

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

6.10.2.4.1.38b.1 Uplink

6.10.2.4.1.38b.1.1 Transport channel parameters

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

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38b.1.1.4 TFCS

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

### 6.10.2.4.1.38b.1.2 Physical channel parameters

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

6.10.2.4.1.38b.2 Downlink

6.10.2.4.1.38b.2.1 Transport channel parameters

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

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.38b.2.1.4 TFCS

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

## 6.10.2.4.1.38b.2.2 Physical channel parameters

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

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

6.10.2.4.1.38c.1 Uplink

6.10.2.4.1.38c.1.1 Transport channel parameters

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

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

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

#### 6.10.2.4.1.38c.1.1.4 TFCS

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

### 6.10.2.4.1.38c.1.2 Physical channel parameters

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

6.10.2.4.1.38c.2 Downlink

6.10.2.4.1.38c.2.1 Transport channel parameters

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

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

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

### 6.10.2.4.1.38c.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,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.2.2 Physical channel parameters

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

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

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

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.1.1.1.

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

Higher Layer	RAB/Sig	nalling RB	RAB	RAB
RLC	Logical	channel type	DTCH	DTCH
	RLC mo		AM	AM
	Payload	sizes, bit	320	320
	Max data	a rate, bps	64000	64000
	AMD PD	U header, bit	16	16
MAC	MAC hea	ader, bit	4	4
	MAC multiplexing		2 logical chann	el multiplexing
Layer 1	TrCH typ	oe e	DC	H
	TB sizes	, bit	340	
	TFS	TF0, bits	0x340	
		TF1, bits	1x3	40
		TF2, bits	2x3	40
		TF3, bits	3x3	40
		TF4, bits	4x3	40
	TTI, ms		20	
	Coding t		TC	
	CRC, bit		16	
	Max number of bits/TTI after channel coding		4284	
	Uplink: Max number of bits/radio frame		2142	
		ate matching		
	RM attrib	oute	130-170	

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

See clause 6.10.2.4.1.2.1.1.1.

## 6.10.2.4.1.38d.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB + 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0),(TF2,TF1,TF1,TF0,TF0),
	(TF0,TF0,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.1.2 Physical channel parameters

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

6.10.2.4.1.38d.2 Downlink

6.10.2.4.1.38d.2.1 Transport channel parameters

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

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

Higher Layer	RAB/Signalling RB			RAB
RLC	Logical	channel type	DTCH	DTCH
	RLC mo	de	AM	AM
	Payload	sizes, bit	320	320
	Max dat	a rate, bps	64000	64000
	AMD PE	OU header, bit	16	16
MAC	MAC he	ader, bit	4	4
	MAC multiplexing		2 logical chanr	nel multiplexing
Layer 1	TrCH type		DCH	
	TB sizes, bit		340	
	TFS	0x340	0x340	
		1x340	1x340	
		2x340	2x3	340
		3x340	3x340	
		4x340	4x3	340
	TTI, ms		20	
	Coding type		TC	
	CRC, bit		16	
	Max number of bits/TTI after channel coding		4284	
	RM attri	bute	130-170	

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

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.38d.2.1.4 TFCS

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

### 6.10.2.4.1.38d.2.2 Physical channel parameters

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

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

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

6.10.2.4.1.38e.1 Uplink

6.10.2.4.1.38e.1.1 Transport channel parameters

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

kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

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

See clause 6.10.2.4.1.38a.1.1.2.

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

See clause 6.10.2.4.1.2.1.1.1.

### 6.10.2.4.1.38e.1.1.4 TFCS

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

### 6.10.2.4.1.38e.1.2 Physical channel parameters

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

6.10.2.4.1.38e.2 Downlink

6.10.2.4.1.38e.2.1 Transport channel parameters

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

See clause 6.10.2.4.1. 4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.38e.2.1.4 TFCS

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

# 6.10.2.4.1.38e.2.2 Physical channel parameters

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

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

6.10.2.4.1.38f.1 Uplink

6.10.2.4.1.38f.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.1.1.1.

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

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

### 6.10.2.4.1.38f.1.1.4 TFCS

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

## 6.10.2.4.1.38f.1.2 Physical channel parameters

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

6.10.2.4.1.38f.2 Downlink

6.10.2.4.1.38f.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.38f.2.1.4 TFCS

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

### 6.10.2.4.1.38g.1.2 Physical channel parameters

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

6.10.2.4.1.38g.2 Downlink

6.10.2.4.1.38g.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.38g.2.1.4 TFCS

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

### 6.10.2.4.1.38g.2.2 Physical channel parameters

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

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

6.10.2.4.1.38h.1 Uplink

6.10.2.4.1.38h.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.1.1.1.

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

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.38h.1.1.4 TFCS

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

### 6.10.2.4.1.38h.1.2 Physical channel parameters

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

6.10.2.4.1.38h.2 Downlink

6.10.2.4.1.38h.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

### 6.10.2.4.1.38h.2.1.4 TFCS

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

# 6.10.2.4.1.38i.2.2 Physical channel parameters

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

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

6.10.2.4.1.38j.1 Uplink

6.10.2.4.1.38j.1.1 Transport channel parameters

See clause 6.10.2.4.1.38i.1.1

6.10.2.4.1.38j.2 Downlink

6.10.2.4.1.38j.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.38j.2.1.4 TFCS

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

# 6.10.2.4.1.38j.2.2 Physical channel parameters

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

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

6.10.2.4.1.39.1 Uplink

See clause 6.10.2.4.1.38.1.

6.10.2.4.1.39.2 Downlink

6.10.2.4.1.39.2.1 Transport channel parameters

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

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

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

#### 6.10.2.4.1.39.2.1.4 TFCS

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

# 6.10.2.4.1.39.2.2 Physical channel parameters

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

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

6.10.2.4.1.40.1 Uplink

6.10.2.4.1.40.1.1 Transport channel parameters

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

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

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

### 6.10.2.4.1.40.1.1.4 TFCS

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

### 6.10.2.4.1.40.1.2 Physical channel parameters

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

6.10.2.4.1.40.2 Downlink

See clause 6.10.2.4.1.39.2.

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

6.10.2.4.1.41.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.41.2 Downlink

6.10.2.4.1.41.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

## 6.10.2.4.1.41.2.1.4 TFCS

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

### 6.10.2.4.1.41.2.2 Physical channel parameters

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

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

6.10.2.4.1.42.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.42.2 Downlink

6.10.2.4.1.42.2.1 Transport channel parameters

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

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

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

## 6.10.2.4.1.42.2.1.4 TFCS

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

## 6.10.2.4.1.42.2.2 Physical channel parameters

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

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

6.10.2.4.1.43.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.1.43.2 Downlink

6.10.2.4.1.43.2.1 Transport channel parameters

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

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

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

### 6.10.2.4.1.43.2.1.4 TFCS

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

# 6.10.2.4.1.43.2.2 Physical channel parameters

DPCH	DTX posit	ion	Flexible
Downlink	Spreading factor		8
	Number o	f 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 positi	on	Flexible
Downlink	Spreading factor		4
	Number of DPDCH		3
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	1248
		Number of data bits/frame	18720

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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 6.10.2.4.1.2.2.11.

### 6.10.2.4.1.45.2.1.4 TFCS

6.10.2.4.1.49.1.1.1

See clause 6.10.2.4.1.4.1.1.1.

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

# 6.10.2.4.1.45.2.2 Physical channel parameters

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

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

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

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

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

#### 6.10.2.4.1.49.1.1.4 TFCS

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

### 6.10.2.4.1.49.1.2 Physical channel parameters

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

6.10.2.4.1.49.2 Downlink

6.10.2.4.1.49.2.1 Transport channel parameters

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

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

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

#### 6.10.2.4.1.49.2.1.4 TFCS

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

## 6.10.2.4.1.49.2.2 Physical channel parameters

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

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

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

SRBs for DCCH

6.10.2.4.1.49a.1 Uplink

6.10.2.4.1.49a.1.1 Transport channel parameters

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

kbps / CS RAB

See clause 6.10.2.4.1.4a.1.1.1.

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

See clause 6.10.2.4.1.13.1.1.1.

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.49a.1.1.4 TFCS

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

## 6.10.2.4.1.49a.1.2 Physical channel parameters

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

6.10.2.4.1.49a.2 Downlink

6.10.2.4.1.49a.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.49a.2.1.4 TFCS

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0,TF0,TF0,TF0,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	4800
	bits/radio frame	
	Puncturing Limit	0.88

6.10.2.4.1.51.2 Downlink

6.10.2.4.1.51.2.1 Transport channel parameters

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

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

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

#### 6.10.2.4.1.51.2.1.4 TFCS

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

### 6.10.2.4.1.51.2.2 Physical channel parameters

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

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

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

6.10.2.4.1.51a.1 Uplink

6.10.2.4.1.51a.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.2.1.1.

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

See clause 6.10.2.4.1.38b.1.1.2.

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.51a.1.1.4 TFCS

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

### 6.10.2.4.1.51a.1.2 Physical channel parameters

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

6.10.2.4.1.51a.2 Downlink

6.10.2.4.1.51a.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.2.1.1.

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

See clause 6.10.2.4.1.38b.2.1.2.

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

See clause 6.10.2.4.1.2.2.1.1.

### 6.10.2.4.1.51a.2.1.4 TFCS

TFCS size	8
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF1, 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	De .	TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		2124
	Uplink: Max number of bits/radio frame before rate matching		531
	RM attribute		135-175

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

### 6.10.2.4.1.51b.1.1.4 TFCS

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

### 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
	T

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 multiplexing		2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
'	TB sizes		340	
	TFS	TF0, bits	0x340	
		TF1, bits	1x3	340
	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 attribute		135-175	

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

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.56.1.1.3 TFCS

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

## 6.10.2.4.1.56.1.2 Physical channel parameters

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

6.10.2.4.1.56.2 Downlink

6.10.2.4.1.56.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB	RAB
RLC	Logical channel type	DTCH	DTCH
	RLC mode	AM	AM
	Payload sizes, bit	320	320
	Max data rate, bps	8000	8000
	AMD PDU header, bit	16	16
MAC	MAC header, bit	4	4
	MAC multiplexing	2 logical channel multiplexing	
Layer 1	TrCH type	DCH	
	TB sizes, bit	3	40
	TFS TF0, bits	0x340	
	TF1, bits	1x	340
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1080	
	RM attribute	135-175	

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.56.2.1.3 TFCS

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

## 6.10.2.4.1.56.2.2 Physical channel parameters

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

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

6.10.2.4.1.57.1 Uplink

6.10.2.4.1.57.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB	RAB
RLC	Logical channel type	DTCH	DTCH
	RLC mode	AM	AM
	Payload sizes, bit	320	320
	Max data rate, bps	64000	64000
	AMD PDU header, bit	16	16
MAC	MAC header, bit	4	4
	MAC multiplexing	2 logical channel multiplexing	
Layer 1	TrCH type	DCH	
	TB sizes, bit	340	
	TFS TF0, bits	0x340	
	TF1, bits	1x3	40
	TF2, bits	2x3	40
	TF3, bits	3x3	40
	TF4, bits	4x340	
	TTI, ms	20	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	4284	
	Uplink: Max number of bits/radio frame before rate matching	214	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		frame	
		Puncturing Limit	0.92

6.10.2.4.1.57.2 Downlink

6.10.2.4.1.57.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB		RAB	RAB
RLC	Logical	channel type	DTCH	DTCH
	RLC mo	de	AM	AM
	Payload	sizes, bit	320	320
	Max data	a rate, bps	64000	64000
	AMD PD	OU header, bit	16	16
MAC	MAC he	ader, bit	4	4
	MAC mu	ultiplexing	2 logical channel multiplexing	
Layer 1	TrCH type		DCH	
	TB sizes	s, bit	340	
	TFS	0x340	0x340	
		1x340	1x3	340
		2x340	2x3	340
		3x340	3x340	
		4x340	4x3	340
	TTI, ms		20	
	Coding t	ype	TC	
	CRC, bit	· · · · · · · · · · · · · · · · · · ·	16	
	Max nun	nber of bits/TTI after channel coding	4284	
	RM attribute		130-170	

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.1.57.2.1.3 TFCS

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

#### 6.10.2.4.1.57.2.2 Physical channel parameters

DPCH	DTX position		Flexible
Downlink	Spreading factor		32
	DPCCH Number of TFCI bit		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 type		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	DPCH DTX position Downlink 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	

6.10.2.4.1.59	Reserved for future use
6.10.2.4.1.60	Reserved for future use
6.10.2.4.1.61	Conversational / unknown / UL:8 DL:8 kbps / PS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.61.1	Uplink
6.10.2.4.1.61.1.1	Transport channel parameters

## 6.10.2.4.1.61.1.1.1 Transport channel parameters for Conversational / unknown / UL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	UM	
	Payload sizes, bit	320	
	Max data rate, bps	8000	
	UMD PDU header, bit	8	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	328 (alt 0, 328) (note)	
	TFS TF0, bits	0x328 (alt 1x0) (note)	
	TF1, bits	1x328	
	∏I, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1044	
	Uplink: Max number of bits/radio frame before rate matching	261	
	RM attribute	135-175	
	OTE: In case of using this alternative, CRC parity bits are to be attached any time since number of TrBlks are 1 even if there is no data on the RAB (see clause 4.2.1.1 in TS 25.212).		

6.10.2.4.1.61.1.1.2 Transport channel parameters for Interactive or Background / UL:8 kbps / PS RAB See section 6.10.2.4.1.38b.1.1.2

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

See section 6.10.2.4.1.2.1.1.1

## 6.10.2.4.1.61.1.1.4 TFCS

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

#### 6.10.2.4.1.61.1.2 Physical channel parameters

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

6.10.2.4.1.61.2 Downlink

6.10.2.4.1.61.2.1 Transport channel parameters

## 6.10.2.4.1.61.2.1.1 Transport channel parameters for Conversational / unknown / DL:8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	320
	Max data rate, bps	8000
	AMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	328 (alt 0, 328) (note)
	TFS TF0, bits	0x328 (alt 1x0) (note)
	TF1, bits	1x328
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1044
	RM attribute	135-175
NOTE: In o	case of using this alternative, CRC parity bits are to	be attached any time since number of TrBlks are 1 even

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

6.10.2.4.1.61.2.1.2 Transport channel parameters for Interactive or Background / DL:8 kbps / PS RAB See section 6.10.2.4.1.38b.2.1.2.

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

See section 6.10.2.4.1.2.2.1.1

## 6.10.2.4.1.61.2.1.4 TFCS

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

## 6.10.2.4.1.61.2.2 Physical channel parameters

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

6.10.2.4.1.62 Reserved for future use

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

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.2.2.2.1.3 TFCS

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

## 6.10.2.4.2.2.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 384 kbps / PS RAB, DSCH
	DTX position	n	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	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/Signa	lling RB	RAB
RLC	Logical cha	nnel type	DTCH
	RLC mode		AM
	Payload siz	zes, bit	640
	Max data ra	ate, bps	2048000
	AMD PDU	header, bit	16
MAC	MAC header, bit		18
	MAC multip	olexing	Logical channel multiplexing on a frame by frame basis
Layer 1	TrCH type		DSCH
	TB sizes, bit		674
	TFS	TF0, bits	0x674
		TF1, bits	1x674
		TF2, bits	2x674
		TF3, bits	4 x674
		TF4, bits	8 x674
		TF5, bits	12x674
		TF6, bits	16x674
		TF7, bits	20x674
		TF8, bits	24x674

Higher layer	RAB/Signalling RB	RAB	
	TF9, bits	28x674	
	TF10, bits	32x674	
	TF11, bits	N/A (alt. 36x674)	
	TF12, bits	N/A (alt. 40x674)	
	TF13, bits	N/A (alt. 44x674)	
	TF14, bits	N/A (alt. 48x674)	
	TF15, bits	N/A (alt. 52x674)	
	TF16, bits	N/A (alt. 56x674)	
	TF17, bits	N/A (alt. 60x674)	
	TF18, bits	N/A (alt. 64x674)	
	TTI, ms	10(alt. 20)	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	66300 (alt. 132588)	
	RM attribute	130-170	

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

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.2.3.2.1.3 TFCS

PDSCH	TFCS size	11 (alt.19)
	TFCS	2048 kbps RAB = TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6, TF7, TF8, TF9, TF10, TF11, TF12, TF13, TF14, TF15, TF16, TF17, TF18)
DPCH Downlink	TFCS size	2
associated with PDSCH	TFCS	SRBs for DCCH = TF0, TF1

## 6.10.2.4.2.3.2.2 Physical channel parameters

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

6.10.2.4.2.4 Void

6.10.2.4.2.5 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background

/ UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.5.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.5.2 Downlink

6.10.2.4.2.5.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.2.1.1.

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

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

See clause 6.10.2.4.1.2.2.1.1.

#### 6.10.2.4.2.5.2.1.4 TFCS

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

#### 6.10.2.4.2.5.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 384 kbps / PS RAB, DSCH	
	DTX position		N/A (SingleTrCH)	
	Minimum spreading factor		8	
DPCH Downlink associated	Downlink		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

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

## 6.10.2.4.2.6.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 2048 kbps / PS RAB, DSCH	
	DTX position		N/A (SingleTrCH)	
	Minimum spreading factor		4	
DPCH RAB or SRB, TrCh Downlink associated		RB, TrCh	Conversational / speech / 12.2 kbps / CS RAB, DCH + 3.4 kbps SRBs for DCCH. DCH	
with	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 Number of data bits/frame		32	
			480	

## 6.10.2.4.3 Combinations on SCCPCH

6.10.2.4.3.1 Stand-alone signalling RB for PCCH

6.10.2.4.3.1.1 Transport channel parameters

# 6.10.2.4.3.1.1.1 Transport channel parameter of SRB for PCCH

Higher layer	RAB/signalling RB	SRB
	User of Radio Bearer	RRC
RLC	Logical channel type	PCCH
	RLC mode	TM
	Payload sizes, bit	240 (alt. 80)
	Max data rate, bps	24000 (alt. 8000)
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	PCH
	TB sizes, bit	240 (alt. 80)
	User of Radio Bearer Logical channel type RLC mode Payload sizes, bit Max data rate, bps TrD PDU header, bit MAC header, bit MAC multiplexing TrCH type	0x240 (alt. 0x80)
	TF1, bits	1x240 (alt. 1x80)
	TTI, ms	10
	Coding type	CC 1/2
	CRC, bit	16
		528 (alt. 208)
	RM attribute	210-250

#### 6.10.2.4.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for PCCH = TF0, TF1

# 6.10.2.4.3.1.2 Physical channel parameters

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

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

## 6.10.2.4.3.2.1 Transport channel parameters

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

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

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

Higher	RAB/signalli	ng RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	
layer	User of Rad	io Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	
						High prio	Low prio		
RLC	Logical char	nel 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 rat	te, bps	30400 (alt. 45600)	27200 or 2400 (alt. 40800 or 36000)	25600 (alt. 38400)	25600 (alt. 38400)	25600 (alt. 38400)	33200 (alt. 49800)	
	AMD/UMD/7 bit	TrD PDU header,	8	8	16	16	16	0	
MAC	MAC header	MAC header, bit		24 or 40	24	24	24	2	
IVIAC	MAC multipl	MAC multiplexing		6 logical channel multiplexing					
Layer 1	TrCH type		FACH						
	TB sizes, bit		168						
		TF0, bits	0x168						
	TFS	TF1, bits	1x168						
	1173	TF2, bits	2x168						
		TF3, bits	N/A (alt. 3x168)						
	TTI, ms	TTI, ms		10					
	Coding type		CC 1/2						
	CRC, bit			16					
	Max number rate matchin	Max number of bits/TTI before		752 (alt. 1136)					
	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 size	4 or 5, (alt. 4, 5 or 6)
TFCS	(SRBs for CCCH/DCCH/BCCH, 32kbps RAB) =
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), [TF1, TF1] (note)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), [TF3, TF0] (note), (TF0, TF1), [TF1, TF1] (note))
NOTE: These T	FCs are available only if SCCPCH can be allocated bigger Tx power than required Tx power for
TFC of (	TF2, TF0).

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#### 6.10.2.4.3.2.2 Physical channel parameters

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

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

6.10.2.4.3.2a.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB	RAB
RLC	Logical channel type	DTCH	DTCH
	RLC mode	AM	AM
	Payload sizes, bit	320	320
	Max data rate, bps	32000	32000
	AMD PDU header, bit	16	16
MAC	MAC header, bit	24	24
	MAC multiplexing	2 logical channel multiplexing	
Layer 1	TrCH type	FACH	
	TB sizes, bit	360	
	TFS TF0, bits	0x360	
	TF1, bits	1x36	60
	TTI, ms	10	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	1140	
	RM attribute	110- 150	

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

See clause 6.10.2.4.3.2.1.2

#### 6.10.2.4.3.2a.1.3 TFCS

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

#### 6.10.2.4.3.2a.2 Physical channel parameters

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

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

6.10.2.4.3.3.1 Transport channel parameters

6.10.2.4.3.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.2.4.3.2.1

6.10.2.4.3.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.2.4.3.1.1

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

See clause 6.10.2.4.3.2.1.2

#### 6.10.2.4.3.3.1.4 TFCS

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

# 6.10.2.4.3.3.2 Physical channel parameters

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

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

6.10.2.4.3.4.1 Transport channel parameters

## 6.10.2.4.3.4.1.1 Transport channel parameters of RB for CTCH

Higher layer	RAB/signalling RB		N/A		
inginer injer	User of Radio Bearer		BMC		
RLC	Logical channel type		CTCH		
	RLC mode		UM		
	Payload sizes, bit		152		
	Max data rate, bps		15200		
	UMD PDU header, bit		8		
MAC	MAC header, bit		8		
	MAC multiplexing		N/A		
Layer 1	TrCH type		FACH		
	TB sizes, bit		168		
	TFS TI	F0, bts	0x168		
	T	F1, bits	1x168		
	TTI, ms		10		
	Coding type		CC 1/3		
	CRC, bit		16		
	Max number of bits/T	ΓI before rate	576		
	matching				
	RM attribute		200-240		

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

Higher	RAB/signalling RB		SRB#0	SRB#5		
layer	User of Radio Bear	er	RRC	RRC		
RLC	Logical channel typ	е	CCCH	BCCH		
	RLC mode		UM	TM		
	Payload sizes, bit		152	166		
	Max data rate, bps		15200	16600		
	AMD/UMD/TrD PD bit	U header,	8	0		
MAC	MAC header, bit		8	2		
IVIAC	MAC multiplexing		2 logical channel multiplexing			
Layer 1	TrCH type		FACH			
	TB sizes, bit		168			
	TFS TF0,	bits	0x	:168		
	TF1,	bits	1x	168		
	TTI, ms		10			
	Coding type		CC	C 1/3		
	CRC, bit Max number of bits/TTI		16			
			5	576		
	before rate matchir	ng				
	RM attribute			)-240		

#### 6.10.2.4.3.4.1.3 TFCS

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

#### 6.10.2.4.3.4.2 Physical channel parameters

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

#### 6.10.2.4.4 Combinations on PRACH

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

6.10.2.4.4.1.1 Transport channel parameters

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

Higher	RAB/signalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
RLC	Logical channel type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH
	RLC mode	AM	TM	UM	AM	AM	AM
	Payload sizes, bit	320	166	136	128	128	128
	Max data rate, bps	32000	16600	13600	12800	12800	12800
	AMD/UMD/TrD PDU header, bit	16	0	8	16	16	16

Higher	RAB/sigr	nalling RB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of F	Radio Bearer	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
MAC	MAC hea	ader, bit	24	2	24	24	24	24
	MAC mu	Itiplexing			6 logical chann	el multiplexing		
Layer 1	TrCH typ	е			RAG	CH		
	TB sizes	, bit	360	168	168	168	168	168
	TFS	TF0, bits		1x168				
		TF1, bits			1x3	60		
	TTI, ms		20 (alt. 10)					
	Coding to	уре	CC 1/2					
	CRC, bit				10	6		
	Max num bits/TTI a coding	nber of after channel	768	384	384	384	384	384
		nber of bits/ ame before ching	384 (alt. 768)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)	192 (alt. 384)

#### 6.10.2.4.4.1.1.2 TFCS

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

## 6.10.2.4.4.1.2 Physical channel parameters

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

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

6.10.2.4.4.2.1 Transport channel parameters

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

Higher	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	Interactive/ Background RAB	Interactive/ Background RAB	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio
RLC	Logical channel 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

Higher	RAB/signalling RB	RAB	RAB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio	Interactive/	Interactive/	RRC	RRC	RRC	NAS_DT	NAS_DT
	Bearer	Background RAB	Background RAB				High prio	Low prio
MAC	MAC header, bit	24	24	2	24	24	24	24
	MAC multiplexing			7 logical	channel mult	iplexing		
Layer	TrCH type				RACH			
1	TB sizes, bit	360	360	168	168	168	168	168
	TFS TF0, bits				1x168			
	TF1, bits				1x360			
	TTI, ms				20 (alt. 10)			
	Coding type				CC ½			
	CRC, bit		16					
	Max number of	768	768	384	384	384	384	384
	bits/TTI after							
	channel coding							
	Max number of	384 (alt.	384 (alt	192 (alt.	192 (alt.	192 (alt.	192 (alt.	192 (alt.
	bits/ Radio frame	768)	768)	384)	384)	384)	384)	384)
	before rate							
	matching							

#### 6.10.2.4.4.2.1.2 TFCS

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

## 6.10.2.4.4.2.2 Physical channel parameters

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

# 6.10.3 RAB and signalling RB for TDD

# 6.10.3.1 RABs and signalling RBs

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

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

Table 6.10.3.1.1: Prioritised RABs.

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

Table 6.10.3.1.2: Signalling RBs

#	Maximum rate, kbps	Logical channel	PhyCh onto which SRBs are mapped	
1	UL:1.7 DL:1.7	DCCH	DPCH	
2	UL:3.4 DL:3.4	DCCH	DPCH	
3	UL:13.6 DL:13.6	DCCH	DPCH	
4	DL:27.2 (alt. 40.8)	DCCH	SCCPCH	
5	UL:16.6	CCCH	PRACH	
6	DL:30.4 (alt. 45.6)	CCCH	SCCPCH	
7	DL:33.2 (alt. 49.8)	BCCH:	SCCPCH	
8	DL:24 (alt. 6.4)	PCCH	SCCPCH	
9	UL:16.8	SHCCH	PRACH	
10	UL:16.8	SHCCH	PRACH or PUSCH	
11	DL:16	SHCCH	SCCPCH	
12	DL:16	SHCCH	SCCPCH or PDSCH	

# 6.10.3.2 Combinations of RABs and Signalling RBs

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

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

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 21) Streaming / unknown / UL:128 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 22) Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31)Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33)Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35)Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37)Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 39)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Interactive or background / UL:128 DL:2048 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 47) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Streaming / unknown / UL:0 DL:128 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 48) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Streaming / unknown / UL:0 DL:384 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:128 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
  - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 55) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
  - + Streaming / unknown / UL:0 DL:128 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.

#### Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.

- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:3.4 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.

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

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

#### Combinations on SCCPCH

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

#### Combinations on PRACH

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

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

RABs, which are included in the present document, can provide the services as shown in table 6.10.1.1: Traffic classes. Furthermore, the required BER for each RAB, which is assumed in the present document, is shown in table 6.10.3.3.1.

Table 6.10.3.3.1: Example of linkage between RABs and services

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

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

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

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

# 6.10.3.4 Typical radio parameter sets

## 6.10.3.4.1 Combinations on DPCH

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

6.10.3.4.1.1.1 Uplink

6.10.3.4.1.1.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4		
	User of Radio Bear	User of Radio Bearer		RRC	NAS_DT	NAS_DT		
					High prio	Low prio		
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH		
	RLC mode		UM	AM	AM	AM		
	Payload sizes, bit		136	128	128	128		
	Max data rate, bps		1700	1600	1600	1600		
	AMD/UMD PDU he	ader, bit	8	16	16	16		
MAC	MAC header, bit		4	4	4	4		
	MAC multiplexing		4 logical channel multiplexing					
Layer 1	TrCH type		DCH					
	TB sizes, bit		148					
	TFS	TFS TF0, bits		0x148				
		TF1, bits		1x1	48			
	TTI, ms		80					
	Coding type	Coding type		CC 1/3				
	CRC, bit			16				
	Max number of bits	Max number of bits/TTI before rate		516				
	matching							
	Max number of bits	/radio frame before		6	5			
	rate matching							

#### 6.10.3.4.1.1.1.2 TFCS

TFC	S size	2
TFC		SRBs for DCCH = TF0, TF1

## 6.10.3.4.1.1.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	238
	TFCI code word	4 bit
	TPC	2 bit
	Puncturing Limit	1

## 6.10.3.4.1.1.2 Downlink

## 6.10.3.4.1.1.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4			
	User of Radio Bear	User of Radio Bearer			NAS_DT	NAS_DT			
					High prio	Low prio			
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH			
	RLC mode		UM	AM	AM	AM			
	Payload sizes, bit		136	128	128	128			
	Max data rate, bps		1700	1600	1600	1600			
	AMD/UMD PDU he	eader, bit	8	16	16	16			
MAC	MAC header, bit		4	4	4	4			
	MAC multiplexing		4 logical channel multiplexing						
Layer 1	TrCH type		DCH						
	TB sizes, bit	148							
	TFS	TFS TF0, bits		0 x148					
		TF1, bits	1x148						
	TTI, ms	TTI, ms			80				
	Coding type	Coding type			CC 1/3				
	CRC, bit			16					
	Max number of bits	Max number of bits/TTI before rate		516					
	matching	matching							
	Max number of bits	/radio frame before	65						
	rate matching								

#### 6.10.3.4.1.1.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

# 6.10.3.4.1.1.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	240 bits
	TFCI code word	4 bits
	Puncturing limit	1

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

6.10.3.4.1.2.1 Uplink

6.10.3.4.1.2.1.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel type		DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		3400	3200	3200	3200	
	AMD/UMD PDU heade	r, bit	8	16	16	16	
MAC	MAC header, bit		4	4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	TrCH type		DCH			
	TB sizes, bit	TB sizes, bit		148			
	TFS T	F0, bits	0x148				
	T	F1, bits		1x1	48		
	TTI, ms	TTI, ms		40			
	Coding type		CC 1/3				
	CRC, bit			16			
	Max number of bits/TTI	before rate		51	6		
	matching						
	Max number of bits/radio frame before			12	29		
	rate matching						
	RM attribute			155-	165		

#### 6.10.3.4.1.2.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

## 6.10.3.4.1.2.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips		
	Codes and time slots	SF16 x 1 code x 1 time slot		
	Max. Number of data bits/radio frame	238 bits		
	TFCI code word 4 bits			
	TPC 2 bit			
	Puncturing Limit	1		

## 6.10.3.4.1.2.2 Downlink

## 6.10.3.4.1.2.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4	
	User of Radio Bear	er	RRC	RRC	NAS_DT	NAS_DT	
					High prio	Low prio	
RLC	Logical channel typ	е	DCCH	DCCH	DCCH	DCCH	
	RLC mode		UM	AM	AM	AM	
	Payload sizes, bit		136	128	128	128	
	Max data rate, bps		3400	3200	3200	3200	
	AMD/UMD PDU he	ader, bit	8	16	16	16	
MAC	MAC header, bit		4	4	4	4	
	MAC multiplexing		4 logical channel multiplexing				
Layer 1	TrCH type	TrCH type		DCH			
	TB sizes, bit			148			
	TFS	TF0, bits	0x148				
		TF1, bits		1x1	48		
	TTI, ms	TTI, ms		40			
	Coding type	Coding type		CC 1/3			
	CRC, bit			16			
	Max number of bits	/TTI before rate		5′	16		
	matching						
	Max number of bits/radio frame before			12	29		
	rate matching						
	RM attribute			155-	·165		

# 6.10.3.4.1.2.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

# 6.10.3.4.1.2.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	240
	TFCI code word	4 bits
	Puncturing limit	1

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

6.10.3.4.1.3.1 Uplink

6.10.3.4.1.3.1.1 Transport channel parameters

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

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

## 6.10.3.4.1.3.1.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

# 6.10.3.4.1.3.1.2 Physical channel parameters

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

6.10.3.4.1.3.2 Downlink

6.10.3.4.1.3.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4
	User of Radio Bearer		RRC	RRC	NAS_DT	NAS_DT
					High prio	Low prio
RLC	Logical channel typ	Logical channel type		DCCH	DCCH	DCCH
	RLC mode		UM	AM	AM	AM
	Payload sizes, bit		136	128	128	128
	Max data rate, bps		13600	12800	12800	12800
	AMD/UMD PDU he	AMD/UMD PDU header, bit		16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type	TrCH type		DCH		
	TB sizes, bit		148			
	TFS	TF0, bits	0x148			
		TF1, bits	1x148			
	TTI, ms			1	0	
	Coding type		CC 1/3			
	CRC, bit			1	6	
	Max number of bits/TTI before rate matching  Max number of bits/radio frame before rate matching			51	6	
				51	6	

#### 6.10.3.4.1.3.2.1.2 TFCS

TFCS size	2
TFCS	SRBs for DCCH = TF0, TF1

# 6.10.3.4.1.3.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	484 bits
	TFCI code word	4 bits
	Puncturing limit	0.92

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

6.10.3.4.1.4.1 Uplink

6.10.3.4.1.4.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3	
RLC	Logical channel type	DTCH			
	RLC mode	TM	TM	TM	
	Payload sizes, bit	39, 81 (alt. 0, 39, 81)	103	60	
	Max data rate, bps	12200			
	TrD PDU header, bit	0			
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type	DCH	DCH	DCH	
Í	TB sizes, bit	39, 81 (alt. 0, 39, 81)	103	60	
	TFS TF0, bits	0x81(alt. 1x0) (note)	0x103	0x60	
	TF1, bits	1x39	1x103	1x60	
	TF2, bits	1x81	N/A	N/A	
	TTI, ms	20	20	20	
	Coding type	CC 1/3	CC 1/3	CC 1/2	
	CRC, bit	12	N/A	N/A	
	Max number of bits/TTI after channel coding	303	333	136	
	Max number of bits/radio frame before rate matching	152	167	68	
	RM attribute	180-220	170-210	215-256	

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

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

See clause 6.10.3.4.1.2.1.1.

#### 6.10.3.4.1.4.1.1.3 TFCS

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

#### 6.10.3.4.1.4.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips	
	Codes and time slots	SF8 x 1 code x 1 time slot	
	Max. Number of data bits/radio frame	452 bits	
	TFCI code word	16 bits	
	TPC	2 bit	
	Puncturing Limit	0.84	

6.10.3.4.1.4.2 Downlink

6.10.3.4.1.4.2.1 Transport channel parameters

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

Higher Layer	RAB/Signa	lling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3
RLC	Logical channel type		DTCH		
	RLC mode		TM	TM	TM
	Payload sizes, bit		0, 39, 81	103	60
	Max data ra	ate, bps	12200		
	TrD PDU h	eader, bit	0		
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type		DCH	DCH	DCH
	TB sizes, bit		0 39 81	103	60
	TFS	TF0, bits	1x0 (note 2)	0x103	0x60
	(note 1)	TF1, bits	1x39	1x103	1x60
		TF2, bits	1x81	N/A	N/A
	TTI, ms		20	20	20
	Coding type		CC 1/3	CC 1/3	CC 1/2
	CRC, bit		12	N/A	N/A
	Max number of bits/TTI after channel coding		303	333	136
	Max number of bits/radio frame before rate matching		152	167	68
	RM attribute		180-220	170-210	215-256

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

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

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

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.4.2.1.3 **TFCS**

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

#### 6.10.3.4.1.4.2.2 Physical channel parameters

DPCH Downlink	Midamble 512 chips	
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.88

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

6.10.3.4.1.5.1 Uplink

6.10.3.4.1.5.1.1 Transport channel parameters

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

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

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

#### 6.10.3.4.1.5.1.1.2 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)	

# 6.10.3.4.1.5.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bit
	Puncturing Limit	0.48

6.10.3.4.1.5.2 Downlink

6.10.3.4.1.5.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	RAB subflow #3	
RLC	Logical channel type		DTCH		
	RLC mode	TM	TM	TM	
	Payload sizes, bit	0, 39, 65	99	40	
	Max data rate, bps		10200		
	TrD PDU header, bit		0		
MAC	MAC header, bit		0		
	MAC multiplexing		N/A		
Layer 1	TrCH type	DCH	DCH	DCH	
	TB sizes, bit	0 39 65	99	40	
	TFS TF0, bits	1x0 (note 2)	0x99	0x40	
	(note 1) TF1, bits	1x39	1x99	1x40	
	TF2, bits	1x65	N/A	N/A	
	TTI, ms	20	20	20	
	Coding type	CC 1/3	CC 1/3	CC 1/2	
	CRC, bit	12	N/A	N/A	
	Max number of bits/TTI 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 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in

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

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

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.5.2.1.3 **TFCS**

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

#### 6.10.3.4.1.5.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0,48

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

6.10.3.4.1.6.1 Uplink

6.10.3.4.1.6.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTO	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 75 (alt. 0, 39, 75)	84	
	Max data rate, bps	7950		
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/.	A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 75 (alt. 0, 39, 75)	84	
	TFS TF0, bits	0x75 (alt. 1x0) (note)	0x84	
	TF1, bits	1x39	1x84	
	TF2, bits	1x75	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	285	276	
	Max number of bits/radio frame before rate	143	138	
	matching			
	RM attribute	180-220	170-210	
NOTE:	In case of using this alternative, CRC parity bits are to be attached to RAB subflow#1 any time since number			
I	of TrBlks are 1 even if there is no data on RAB subf	low#1 (see clauses 4.2.1.1 in	TS 25.212).	

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

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.6.1.1.3 TFCS

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

# 6.10.3.4.1.6.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52

6.10.3.4.1.6.2 Downlink

6.10.3.4.1.6.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DT	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	0, 39, 75	84	
	Max data rate, bps	79	50	
	TrD PDU header, bit	(	)	
MAC	MAC header, bit	(	)	
	MAC multiplexing	N/A		
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	0, 39, 75	84	
	TFS TF0, bits	1x0 (note 2)	0x84	
	(note 1) TF1, bits	1x39	1x84	
	TF2, bits	1x75	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	285	276	
	Max number of bits/radio frame before rate	143	138	
	matching RM attribute	180-220	170-210	

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

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

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

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.6.2.1.3 TFCS

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

# 6.10.3.4.1.6.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0,52

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

6.10.3.4.1.7.1 Uplink

6.10.3.4.1.7.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DT	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	39, 61 (alt. 0, 39, 61)	87	
	Max data rate, bps	74	00	
	TrD PDU header, bit		)	
MAC	MAC header, bit		)	
	MAC multiplexing	N	/A	
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	39, 61 (alt. 0, 39, 61)	87	
	TFS TF0, bits	0x61 (alt. 1x0) (note)	0x87	
	TF1, bits	1x39	1x87	
	TF2, bits	1x61	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coo	ding 243	285	
	Max number of bits/radio frame before ra	ite 122	143	
	matching			
	RM attribute	180-220		
	TE: 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).			

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.7.1.1.2

## 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)

Transport channel parameters for UL:3.4 kbps SRBs for DCCH

# 6.10.3.4.1.7.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.56

6.10.3.4.1.7.2 Downlink

6.10.3.4.1.7.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type	DTCH	
	RLC mode	TM	TM
	Payload sizes, bit	0, 39, 61	87
	Max data rate, bps	7400	
	TrD PDU header, bit	C	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	DCH
	TB sizes, bit	0, 39, 61	87
	TFS TF0, bits	1x0 (note 2)	0x87
	(note 1) TF1, bits	1x39	1x87
	TF2, bits	1x61	N/A
	TTI, ms	20	20
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	243	285
	Max number of bits/radio frame before rate matching	122	143
	RM attribute	180-220	170-210

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

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

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

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.7.2.1.3 TFCS

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

# 6.10.3.4.1.7.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0,56

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

6.10.3.4.1.8.1 Uplink

6.10.3.4.1.8.1.1 Transport channel parameters

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

Higher	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
Layer RLC	Logical channel type	DTCH		
KLC	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 subflow	v#1 any time since numb	
	of TrBlks are 1 even if there is no data on RAB subf	low#1 (see clause 4.2.1.1 in T	S 25.212).	

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

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

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.8.1.1.3 TFCS

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

# 6.10.3.4.1.8.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.60

6.10.3.4.1.8.2 Downlink

6.10.3.4.1.8.2.1 Transport channel parameters

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

Higher Layer	RAB/Signa	alling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DTCH	
	RLC mode		TM	TM
	Payload si	zes, bit	0, 39, 58	76
	Max data i	ate, bps	6700	
	TrD PDU ł	neader, bit		0
MAC	MAC head	ler, bit		0
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes, bit		0	76
	,		39	
			58	
	TFS	TF0, bits	1x0 (note 2)	0x76
	(note 1)	TF1, bits	1x39	1x76
		TF2, bits	1x58	N/A
	TTI, ms		20	20
	Coding typ	oe e	CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max number of bits/TTI after channel coding		234	252
	Max number of bits/radio frame before rate matching		117	126
	RM attribute		180-220	170-210

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

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

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

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.8.2.1.3 TFCS

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

#### 6.10.3.4.1.8.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0,6

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

6.10.3.4.1.9.1 Uplink

6.10.3.4.1.9.1.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
RLC	Logical channel type	DTCH	
	RLC mode	TM	TM
	Payload sizes, bit	39, 55 (alt. 0, 39, 55)	63
	Max data rate, bps	590	00
	TrD PDU header, bit	0	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	DCH
	TB sizes, bit	39, 55 (alt. 0, 39, 55)	63
	TFS TF0, bits	0x55 (alt. 1x0) (note)	0x63
	TF1, bits	1x39	1x63
	TF2, bits	1x55	N/A
	TTI, ms	20	20
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	225	213
	Max number of bits/radio frame before rate matching	113	107
	RM attribute	180-220	170-210

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

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

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.9.1.1.3 TFCS

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

#### 6.10.3.4.1.9.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.64

6.10.3.4.1.9.2 Downlink

6.10.3.4.1.9.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTO	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	0, 39, 55	63	
	Max data rate, bps	590	00	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A		
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	0, 39, 55	63	
	TFS TF0, bits	1x0 (note 2)	0x63	
	(note 1) TF1, bits	1x39	1x63	
	TF2, bits	1x55	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	225	213	
	Max number of bits/radio frame before rate matching	113	107	
	RM attribute	180-220	170-210	

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

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

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

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.9.2.1.3 TFCS

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

#### 6.10.3.4.1.9.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0,64

6.10.3.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.10.3.4.1.10.1 Uplink

6.10.3.4.1.10.1.1 Transport channel parameters

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

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

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

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

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.10.1.1.3 TFCS

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

#### 6.10.3.4.1.10.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.68

6.10.3.4.1.10.2 Downlink

6.10.3.4.1.10.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RE	3	RAB subflow #1	RAB subflow #2
RLC	Logical channel type		DT	СН
	RLC mode		TM	TM
	Payload sizes, bit		0, 39, 49	54
	Max data rate, bps	3	51	50
	TrD PDU header,	bit		0
MAC	MAC header, bit			0
	MAC multiplexing		N/A	
Layer 1	TrCH type		DCH	DCH
	TB sizes, bit		0, 39, 49	54
	TFS TF0,	oits	1x0 (note 2)	0x54
	(note 1) TF1, I	oits	1x39	1x54
	TF2, I	oits	1x49	N/A
	TTI, ms		20	20
	Coding type		CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max number of bit	s/TTI after channel coding	207	186
	Max number of bits/radio frame before rate matching		104	93
	RM attribute		180-220	170-210

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

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

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

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.10.2.1.3 TFCS

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

#### 6.10.3.4.1.10.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0.68

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

6.10.3.4.1.11.1 Uplink

6.10.3.4.1.11.1.1 Transport channel parameters

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

Higher	RAB/Signalling RB	RAB subflow #1	RAB subflow #2
Layer			
RLC	Logical channel type	DTCH	
	RLC mode	TM	TM
	Payload sizes, bit	39, 42 (alt. 0, 39, 42)	53
	Max data rate, bps	4750	
	TrD PDU header, bit	0	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	DCH
	TB sizes, bit	39, 42 (alt. 0, 39, 42)	53
	TFS TF0, bits	0x42 (alt. 1x0) (note)	0x53
	TF1, bits	1x39	1x53
	TF2, bits	1x42	N/A
	TTI, ms	20 20	
	Coding type	CC 1/3	CC 1/3
	CRC, bit	12	N/A
	Max number of bits/TTI after channel coding	186	183
	Max number of bits/radio frame before rate	93	92
	matching		
	RM attribute	180-220	170-210

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

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

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.11.1.3 TFCS

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

#### 6.10.3.4.1.11.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	226 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.68

6.10.3.4.1.11.2 Downlink

6.10.3.4.1.11.2.1 Transport channel parameters

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

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DT	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	0, 39, 42	53	
	Max data rate, bps	4750		
	TrD PDU header, bit	(	)	
MAC	MAC header, bit	0		
	MAC multiplexing	N/A		
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	0, 39, 42	53	
	TFS TF0, bits	1x0 (note 2)	0x53	
	(note 1) TF1, bits	1x39	1x53	
	TF2, bits	1x42	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	186	183	
	Max number of bits/radio frame before rate matching	93	92	
	RM attribute	180-220	170-210	

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25.212).

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212).

## 6.10.3.4.1.11.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.11.2.1.3 TFCS

TFCS size	6
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)= (TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF1, TF0), (TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1)

#### 6.10.3.4.1.11.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	228 bits
	TFCI code word	16 bits
	Puncturing limit	0,72

6.10.3.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.12.1 Uplink

6.10.3.4.1.12.1.1 Transport channel parameters

#### 6.10.3.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB

Higher	RAB/Signalling RB	RAB
Layer		
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Max number of bits/radio frame before rate	891
	matching	
	RM attribute	160-200

# 6.10.3.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.12.1.1.3 TFCS

TFCS size	6
TFCS	(28.8 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)

# 6.10.3.4.1.12.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44

6.10.3.4.1.12.2 Downlink

6.10.3.4.1.12.2.1 Transport channel parameters

# 6.10.3.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Max number of bits/radio frame before rate matching	891
	RM attribute	160-200

# 6.10.3.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.12.2.1.3 TFCS

TFCS size	6
TFCS	(28.8 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)

# 6.10.3.4.1.12.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0.44

6.10.3.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.13.1 Uplink

6.10.3.4.1.13.1.1 Transport channel parameters

#### 6.10.3.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

Higher	RAB/Signalling RB		RAB
Layer			
RLC	Logical channel	type	DTCH
	RLC mode		TM
	Payload sizes, b	it	640
	Max data rate, b	ps	64000
	TrD PDU header	r, bit	0
MAC	MAC header, bit		0
	MAC multiplexin	g	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 b	oits/TTI after channel coding	3948(alt. 7884)
	Max number of bits/radio frame before rate		1974(alt. 1971)
	matching		· ,
	RM attribute		150-195

# 6.10.3.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.13.1.1.3 TFCS

TFCS size	4
TFCS	(64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

# 6.10.3.4.1.13.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	{SF16 x 1 code + SF4 x 1 code} x 1 time slot
	Max. Number of data	1210 bits
	TFCI code word	8 bits
	TPC	2 bits
	Puncturing Limit	0.56

6.10.3.4.1.13.2 Downlink

6.10.3.4.1.13.2.1 Transport channel parameters

# 6.10.3.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

Higher	RAB/Signalling RB		RAB
Layer RLC	Logical channel type		DTCH
	RLC mode		TM
	Payload sizes, k	oit	640
	Max data rate, b		64000
	TrD PDU heade		0
MAC	MAC header, bi	t	0
	MAC multiplexing	ng	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		640
	TFS	TF0, bits	0x640
		TF1, bits	2x640(alt. 4x640)
	TTI, ms		20(alt. 40)
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		3948(alt. 7884)
	Max number of	bits/radio frame before rate	1974(alt. 1971)
	matching		•
	RM attribute		150-195

# 6.10.3.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.13.2.1.3 TFCS

TFCS size	4
TFCS	(64 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

#### 6.10.3.4.1.13.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1212 bits
	TFCI code word	8 bits
	Puncturing limit	0,56

6.10.3.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.14.1 Uplink

6.10.3.4.1.14.1.1 Transport channel parameters

#### 6.10.3.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB

Higher	RAB/Signalling RB	RAB
Layer		
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	640
	Max data rate, bps	32000
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	640
	TFS TF0, bits	0x640
	TF1, bits	1x640(alt. 2x640)
	TTI, ms	20(alt. 40)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1980(alt. 3948)
	Max number of bits/radio frame before rate	990(alt. 987)
	matching	·
	RM attribute	165-210

# 6.10.3.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

# 6.10.3.4.1.13.1.1.3 TFCS

TFCS size	4
TFCS	(32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

# 6.10.3.4.1.14.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	936 bits
	TFCI code word	8 bits
	TPC	2 bits
	Puncturing Limit	0.80

6.10.3.4.1.14.2 Downlink

6.10.3.4.1.14.2.1 Transport channel parameters

# 6.10.3.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	640
	Max data rate, bps	32000
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
,	TB sizes, bit	640
	TFS TF0, bits	0x640
	TF1, bits	1x640(alt. 2x640)
	TTI, ms	20(alt. 40)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1980(alt. 3948)
	Max number of bits/radio frame before rate	990(alt. 987)
	matching	
	RM attribute	165-210

# 6.10.3.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.14.2.1.3 TFCS

TFCS size	4
TFCS	(32 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

# 6.10.3.4.1.14.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 3 codes x 1 time slot
	Max. Number of data bits/radio frame	724 bits
	TFCI code word	8 bits
	Puncturing limit	0,64

6.10.3.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.15.1 Uplink

6.10.3.4.1.15.1.1 Transport channel parameters

# 6.10.3.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB

Higher	RAB/Signalling RB	RAB
Layer		
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	14400
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	1788
	Max number of bits/radio frame before rate	447
	matching	
	RM attribute	145-185

# 6.10.3.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.15.1.1.3 TFCS

TFCS size	4
TFCS	(14.4 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

# 6.10.3.4.1.15.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	468 bits
	TFCI code word	8 bits
	TPC	2 bits
	Puncturing Limit	0.80

6.10.3.4.1.15.2 Downlink

6.10.3.4.1.15.2.1 Transport channel parameters

# 6.10.3.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
1.20	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)

# 6.10.3.4.1.15.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	480 bits
	TFCI code word	8 bits
	Puncturing limit	0,8

6.10.3.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.16.1 Uplink

6.10.3.4.1.16.1.1 Transport channel parameters

#### 6.10.3.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Max number of bits/radio frame before rate matching	891
	RM attribute	135-175

# 6.10.3.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.16.1.1.3 TFCS

TFCS size	6
TFCS	(28.8kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)

# 6.10.3.4.1.16.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF8 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	452 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44

6.10.3.4.1.16.2 Downlink

6.10.3.4.1.16.2.1 Transport channel parameters

# 6.10.3.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	28800
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	3564
	Max number of bits/radio frame before rate matching	891
	RM attribute	135-175

# 6.10.3.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

## 6.10.3.4.1.16.2.1.3 TFCS

TFCS size	6
TFCS	(28.8kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)

# 6.10.3.4.1.16.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0,44

6.10.3.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.17.1 Uplink

6.10.3.4.1.17.1.1 Transport channel parameters

#### 6.10.3.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	57600
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TF3, bits	3x576
	TF4, bits	4x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	7116
	Max number of bits/radio frame before rate matching	1779
	RM attribute	125-165

#### 6.10.3.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.17.1.1.3 TFCS

TFCS size	10
TFCS	(57.6 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

#### 6.10.3.4.1.17.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44

6.10.3.4.1.17.2 Downlink

6.10.3.4.1.17.2.1 Transport channel parameters

# 6.10.3.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	576
	Max data rate, bps	57600
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	576
	TFS TF0, bits	0x576
	TF1, bits	1x576
	TF2, bits	2x576
	TF3, bits	3x576
	TF4, bits	4x576
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	7116
	Max number of bits/radio frame before rate matching	1779
	RM attribute	125-165

# 6.10.3.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.17.2.1.3 TFCS

TFCS size	10
TFCS	(57.6 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

#### 6.10.3.4.1.17.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 4 codes x 1 time slot
	Max. Number of data bits/radio frame	960 bits
	TFCI code word	16 bits
	Puncturing limit	0,48

6.10.3.4.1.18 Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.18.1 Uplink

6.10.3.4.1.18.1.1 Transport channel parameters

Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB 6.10.3.4.1.18.1.1.1

N/A

6.10.3.4.1.18.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.18.1.1.3

See clause 6.10.3.4.1.2.1.1.2.

6.10.3.4.1.18.1.2 Physical channel parameters

See clause 6.10.3.4.1.2.1.2.

6.10.3.4.1.18.2 Downlink

6.10.3.4.1.18.2.1 Transport channel parameters

6.10.3.4.1.18.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	320
	Max data rate, bps	64000
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	320
	TFS TF0, bits	0x320
	TF1, bits	1x320
	TF2, bits	2x320
	TF3, bits	4x320
	TF4, bits	8x320
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	8076
	Max number of bits/radio frame before rate matching	2019
	RM attribute	125-165

Transport channel parameters for DL:3.4 kbps SRBs for DCCH 6.10.3.4.1.18.2.1.2

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.18.2.1.3 TFCS

TFCS size	10
TFCS	(64 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

# 6.10.3.4.1.18.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing limit	0,56

6.10.3.4.1.19 Streaming / unknown / UL:64 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.19.1 Uplink

6.10.3.4.1.19.1.1 Transport channel parameters

# 6.10.3.4.1.19.1.1.1 Transport channel parameters for Streaming / unknown / UL:64 kbps / CS or PS RAB

Higher Layer	RAB/Sig	nalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mo	de	TM
	Payload	sizes, bit	320
	Max dat	a rate, bps	64000
	TrD PDI	J header, bit	0
MAC	MAC header, bit		0
	MAC mu	ultiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		320
	TFS	TF0, bits	0x320
		TF1, bits	1x320
		TF2, bits	2x320
		TF3, bits	4x320
		TF4, bits	8x320
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		8076
	Max number of bits/radio frame before rate matching		2019
	RM attribute		125-165

# 6.10.3.4.1.19.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.19.1.1.3 TFCS

TFCS size	10
TFCS	(64 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

#### 6.10.3.4.1.19.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	{SF16 x 1 code + SF4 x 1 code}
		x 1 time slot
	Max. Number of data bits/radio frame	1202 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52

6.10.3.4.1.19.2 Downlink

6.10.3.4.1.19.2.1 Transport channel parameters

6.10.3.4.1.19.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

N/A

6.10.3.4.1.19.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.19.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.10.3.4.1.19.2.2 Physical channel parameters

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.1.20 Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.20.1 Uplink

6.10.3.4.1.20.1.1 Transport channel parameters

6.10.3.4.1.20.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A

6.10.3.4.1.20.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.20.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.10.3.4.1.20.1.2 Physical channel parameters

See clause 6.10.3.4.1.2.1.2.

6.10.3.4.1.20.2 Downlink

6.10.3.4.1.20.2.1 Transport channel parameters

6.10.3.4.1.20.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

Higher	RAB/Signalling RB	RAB
Layer		
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	320
	Max data rate, bps	128000
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	320
	TFS TF0, bits	0x320
	TF1, bits	1x320
	TF2, bits	2x320
	TF3, bits	4x320
	TF4, bits	8x320
	TF5, bits	16x320
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	16152
	Max number of bits/radio frame before rate	4038
	matching	
	RM attribute	125-165

6.10.3.4.1.20.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.20.2.1.3 TFCS

TFCS size	12
TFCS	(128 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)

# 6.10.3.4.1.20.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0,52

6.10.3.4.1.21 Streaming / unknown / UL:128 DL:0 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.21.1 Uplink

6.10.3.4.1.21.1.1 Transport channel parameters

6.10.3.4.1.21.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / CS or PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	320
	Max data rate, bps	128000
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	320
	TFS TF0, bits	0x320
	TF1, bits	1x320
	TF2, bits	2x320
	TF3, bits	4x320
	TF4, bits	8x320
	TF5, bits	16x320
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	16152
	Uplink: Max number of bits/radio frame before	4038
	rate matching	
	RM attribute	125-165

# 6.10.3.4.1.21.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.21.1.1.3 TFCS

TFCS size	12
TFCS	(128 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)

#### 6.10.3.4.1.21.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.48

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6.10.3.4.1.21.2.1 Transport channel parameters

6.10.3.4.1.21.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

N/A

6.10.3.4.1.21.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.21.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.1.21.2.2 Physical channel parameters

See clause 6.10.3.4.1.2.2.2.

6.10.3.4.1.22 Streaming / unknown / UL:0 DL:384 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.22.1 Uplink

6.10.3.4.1.22.1.1 Transport channel parameters

6.10.3.4.1.22.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A

6.10.3.4.1.22.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.1.22.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.10.3.4.1.22.1.2 Physical channel parameters

See clause 6.10.3.4.1.2.1.2.

6.10.3.4.1.22.2 Downlink

6.10.3.4.1.22.2.1 Transport channel parameters

# 6.10.3.4.1.22.2.1.1 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	TM
	Payload sizes, bit	320
	Max data rate, bps	384000
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	320
	TFS TF0, bits	0x320
	TF1, bits	1x320
	TF2, bits	2x320
	TF3, bits	4x320
	TF4, bits	8x320
	TF5, bits	16x320
	TF6, bits	32x320
	TF7, bits	48x320
	TTI, ms	40
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	48432
	Max number of bits/radio frame before rate matching	12108
	RM attribute	110-150

# 6.10.3.4.1.22.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.22.2.1.3 TFCS

TFCS size	16
TFCS	(384 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1)

# 6.10.3.4.1.22.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6608 bits
	TFCI code word	16 bits
	Puncturing limit	0,52

6.10.3.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for

**DCCH** 

6.10.3.4.1.23.1 Uplink

6.10.3.4.1.23.1.1 Transport channel parameters

# 6.10.3.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

Higher 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)
	Max number of bits/radio frame before rate matching	1062 (alt. 1080)
	RM attribute	135-175

#### 6.10.3.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.23.1.1.3 TFCS

TFCS size	6 (alt. 4)
TFCS	(32 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1))

#### 6.10.3.4.1.23.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.76

6.10.3.4.1.23.2 Downlink

6.10.3.4.1.23.2.1 Transport channel parameters

# 6.10.3.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

Higher Layer	RAB/Sig	nalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		AM
	Payload	sizes, bit	320
			8000
	AMD PDU header, bit		16
MAC	MAC header, bit		0
	MAC mu	ultiplexing	N/A
Layer 1	TrCH type		DCH
	Payload sizes, bit Max data rate, bps AMD PDU header, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
	TTI, ms		40
	Coding type		TC (alt. CC 1/3)
			16
	Max number of bits/TTI after channel coding		1068 (alt. 1080)
			267 (alt. 270)
	matching		
	RM attribute		135-175

# 6.10.3.4.1.23.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.23.2.1.3 TFCS

TFCS size	4
TFCS	(8 kbps RAB, DCCH)=(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

# 6.10.3.4.1.23.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	236 bits
	TFCI code word	8 bits
	Puncturing limit	0.56

6.10.3.4.1.24 Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for

DCCH

6.10.3.4.1.24.1 Uplink

6.10.3.4.1.24.1.1 Transport channel parameters

#### 6.10.3.4.1.24.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	64000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	3x336
	TF4, bits	4x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4236
	Max number of bits/radio frame before rate matching	2118
	RM attribute	130-170

# 6.10.3.4.1.24.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

## 6.10.3.4.1.24.1.1.3 TFCS

TFCS size	10
	(64 kbps RAB, DCCH)= (750, 750), (751, 750), (752, 750), (754, 750)
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

#### 6.10.3.4.1.24.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	{SF16 x 1 code + SF4 x 1 code}
		x 1 time slot
	Max. Number of data bits/radio frame	1202 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52

6.10.3.4.1.24.2 Downlink

See clause 6.10.3.4.1.23.2.

6.10.3.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.25.1 Uplink

See clause 6.10.3.4.1.23.1.

6.10.3.4.1.25.2 Downlink

6.10.3.4.1.25.2.1 Transport channel parameters

#### 6.10.3.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	64000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	3x336
	TF4, bits	4x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4236
	Max number of bits/radio frame before rate matching	2118
	RM attribute	130-170

6.10.3.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.25.2.1.3 TFCS

TFCS size	10
TFCS	(64 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

#### 6.10.3.4.1.25.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing limit	0,52

6.10.3.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.26.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.26.2 Downlink

See clause 6.10.3.4.1.25.2.

6.10.3.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.10.3.4.1.27.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.27.2 Downlink

6.10.3.4.1.27.2.1 Transport channel parameters

#### 6.10.3.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

Higher Layer	RAB/Signa	alling RB	RAB
RLC	Logical channel type		DTCH
	RLC mode		AM
	Payload si	zes, bit	320
	Max data ı	rate, bps	128000
	AMD PDU	header, bit	16
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	4 x336
		TF4, bits	8 x336
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TTI after channel coding		8460
	Max number of bits/radio frame before rate		4230
	matching		
	RM attribute		120-160

6.10.3.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.27.2.1.3 TFCS

TFCS size	10
TFCS	(128 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

# 6.10.3.4.1.27.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0,48

6.10.3.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.28.1 Uplink

6.10.3.4.1.28.1.1 Transport channel parameters

# 6.10.3.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

Higher	RAB/Signalling RB	RAB
Layer RLC	Logical channel type	DTCH
INLO	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	128000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	8460
	Max number of bits/radio frame before rate matching	4230
	RM attribute	120-160

# 6.10.3.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.28.1.1.3 TFCS

TFCS size	10
TFCS	(128 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

# 6.10.3.4.1.28.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

6.10.3.4.1.28.2 Downlink

See clause 6.10.3.4.1.27.2.

6.10.3.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.3.4.1.29.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.29.2 Downlink

6.10.3.4.1.29.2.1 Transport channel parameters

#### 6.10.3.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	144000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	9x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	9516
	Max number of bits/radio frame before rate 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)

# 6.10.3.4.1.29.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 9 codes x 1 time slot
	Max. Number of data bits/radio frame	2468 bits
	TFCI code word	16 bits
	Puncturing limit	0,48

6.10.3.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.30.1 Uplink

6.10.3.4.1.30.1.1 Transport channel parameters

# 6.10.3.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	144000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	9 x336
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	9516
	Max number of bits/radio frame before rate	4758
	matching	
	RM attribute	140-180

6.10.3.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.30.1.1.3 TFCS

TFCS size	12
TFCS	(144 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)

# 6.10.3.4.1.30.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	{SF16 x 1 code + SF2 x 1 code}
		x 1 time slot
	Max. Number of data bits/radio frame	2466 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.52

6.10.3.4.1.30.2 Downlink

See clause 6.10.3.4.1.29.2.

6.10.3.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.31.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.31.2 Downlink

6.10.3.4.1.31.2.1 Transport channel parameters

#### 6.10.3.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	N/A (alt. 12x336)
	TF6, bits	N/A (alt. 16x336)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	8460(alt. 16920)
	Max number of bits/radio frame before rate matching	8460 (alt. 8460)
	RM attribute	135-175

6.10.3.4.1.31.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.31.2.1.3 TFCS

TFCS size	10 (alt.14)
TFCS	(256 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1))

#### 6.10.3.4.1.31.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	4400 bits
	TFCI code word	16 bits
	Puncturing limit	0,48

6.10.3.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.10.3.4.1.32.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.32.2 Downlink

6.10.3.4.1.32.2.1 Transport channel parameters

# 6.10.3.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

Higher	RAB/Signalling RB	RAB
Layer		
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A

Higher Layer	RAB/Signalling RB	RAB
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	4 x336
	TF4, bits	8 x336
	TF5, bits	12x336
	TF6, bits	N/A (alt. 16 x336)
	TF7, bits	N/A (alt. 20 x336)
	TF8, bits	N/A (alt. 24 x336)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	12684(alt. 25368)
	Max number of bits/radio frame before rate matching	12684 (alt. 12684)
	RM attribute	110-150

6.10.3.4.1.32.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.32.2.1.3 TFCS

TFCS size	12 (alt.18)
TFCS	(384 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1))

#### 6.10.3.4.1.32.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6608 bits
	TFCI code word	16 bits
	Puncturing limit	0,52

6.10.3.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.33.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.1.33.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.34.1 Uplink

6.10.3.4.1.34.1.1 Transport channel parameters

6.10.3.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

Higher	RAB/Signalling RB	RAB
Layer	La sia allah ayaral tara	DTOLL
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
	Max number of bits/radio frame before rate	12684
	matching	
	RM attribute	110-150

#### 6.10.3.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.34.1.1.3 TFCS

TFCS size	18 (alt.12)
TFCS	(384 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0)
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1))

# 6.10.3.4.1.34.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 3 time slots
	Max. Number of data bits/radio frame	6480 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

6.10.3.4.1.34.2 Downlink

See clause 6.10.3.4.1.32.2.

6.10.3.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.10.3.4.1.35.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.35.2 Downlink

6.10.3.4.1.35.2.1 Transport channel parameters

# 6.10.3.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

Higher	RAB/Signalling RB	RAB
Layer		
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	640
	Max data rate, bps	2048000
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
•	TB sizes, bit	656
	TFS TF0, bits	0x656
	TF1, bits	1x656
	TF2, bits	2x656
	TF3, bits	4 x656
	TF4, bits	8 x656
	TF5, bits	12x656
	TF6, bits	16x656
	TF7, bits	20x656
	TF8, bits	24x656
	TF9, bits	28x656
	TF10, bits	32x656
	TF11, bits	N/A (alt. 36x656)
	TF12, bits	N/A (alt. 40x656)
	TF13, bits	N/A (alt. 44x656)
	TF14, bits	N/A (alt. 48x656)
	TF15, bits	N/A (alt. 52x656)
	TF16, bits	N/A (alt. 56x656)
	TF17, bits	N/A (alt. 60x656)
	TF18, bits	N/A (alt. 64x656)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
i	Max number of bits/TTI after channel coding	64575 (alt. 129141)

Higher Layer	RAB/Signalling RB	RAB
	Max number of bits/radio frame before rate matching	64575 (alt. 64571)
	RM attribute	130-170

6.10.3.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.35.2.1.3 TFCS

TFCS size	22 (alt.38)
TFCS	(2048 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF8, TF0), (TF9, TF0), (TF10, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1)
	(alt. TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),
	(TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0), (TF15,
	TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0))

#### 6.10.3.4.1.35.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF1 x 1 code x 12 time slot
	Max. Number of data bits/radio frame	52976 bits
	TFCI code word	16 bits
	Puncturing limit	0,80

6.10.3.4.1.36 Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.36.1 Uplink

See clause 6.10.3.4.1.28.1.

6.10.3.4.1.36.2 Downlink

See clause 6.10.3.4.1.35.2.

6.10.3.4.1.37 Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.37.1 Uplink

See clause 6.10.3.4.1.34.1.

6.10.3.4.1.37.2 Downlink

See clause 6.10.3.4.1.35.2.

6.10.2.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.38.1 Uplink

6.10.3.4.1.38.1.1 Transport channel parameters

6.10.3.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1

6.10.3.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.10.3.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.38.1.1.4 TFCS

TFCS size	18 (alt. 12)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 32kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1)
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0,
	TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1))

#### 6.10.3.4.1.38.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF4 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	904 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.56

6.10.3.4.1.38.2 Downlink

6.10.3.4.1.38.2.1 Transport channel parameters

6.10.3.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.10.3.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.

#### 6.10.3.4.1.38.2.1.4 TFCS

TFCS size	12
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3,8kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)

#### 6.10.3.4.1.38.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0,60

6.10.3.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.39.1 Uplink

See clause 6.10.3.4.1.38.1.

6.10.3.4.1.39.2 Downlink

6.10.3.4.1.39.2.1 Transport channel parameters

6.10.3.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.39.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

#### 6.10.3.4.1.39.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	1936 bits
	TFCI code word	16 bits
	Puncturing limit	0,68

6.10.3.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.3.4.1.40.1 Uplink

6.10.3.4.1.40.1.1 Transport channel parameters

6.10.3.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.24.1.1.1.

6.10.3.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.40.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

#### 6.10.3.4.1.40.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	1808 bits
	TFCI code word	16 bit
	TPC	2 bits
	Puncturing Limit	0.68

6.10.3.4.1.40.2 Downlink

See clause 6.10.3.4.1.39.2.

6.10.3.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.41.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.41.2 Downlink

6.10.3.4.1.41.2.1 Transport channel parameters

6.10.3.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.41.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

#### 6.10.3.4.1.41.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 10 codes x 1 time slot
	Max. Number of data bits/radio frame	2744 bits
	TFCI code word	16 bits
	Puncturing limit	0,56

6.10.3.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.42.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.42.2 Downlink

6.10.3.4.1.42.2.1 Transport channel parameters

6.10.3.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1

6.10.3.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.10.3.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.42.2.1.4 TFCS

TFCS size	30 (alt. 42)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 256 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1))

#### 6.10.3.4.1.42.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 10 codes x 2 time slots
	Max. Number of data bits/radio frame	5504 bits
	TFCI code word	16 bits
	Puncturing limit	0,60

6.10.3.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:384 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.43.1 Uplink

See clause 6.10.3.4.1.40.1.

6.10.3.4.1.43.2 Downlink

6.10.3.4.1.43.2.1 Transport channel parameters

6.10.3.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB See clause 6.10.3.4.1.32.2.1.1.

6.10.3.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.43.2.1.4 TFCS

TFCS size	36 (alt. 54)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, 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, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)
	(TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
	(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1)
	(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1))

# 6.10.3.4.1.43.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6592 bits
	TFCI code word	32 bits
	Puncturing limit	0,48

6.10.3.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.44.1 Uplink

6.10.3.4.1.44.1.1 Transport channel parameters

6.10.3.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.44.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

#### 6.10.3.4.1.44.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	{SF8 x 1 code + SF2 x 1 code}
		x 1 time slot
	Max. Number of data bits/radio frame	2724 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.56

6.10.3.4.1.44.2 Downlink

6.10.3.4.1.44.2.1 Transport channel parameters

6.10.3.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB See clause 6.10.3.4.1.35.2.1.1.

6.10.3.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.44.2.1.4 TFCS

TFCS size	66 (alt. 114)
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 2048 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
	(TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0),
	(TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),  (TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
	TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
	(TF0, TF0, TF0, TF7, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),
	(TF0, TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),  (TF0, TF0, TF0, TF9, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1)
	(TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF10, TF1)
	(alt. (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF8, TF0), (TF1, TF0, TF0, TF8, TF0), (TF2, TF1, TF1, TF8, TF0),
	(TF0, TF0, TF0, TF9, TF0), (TF1, TF0, TF0, TF9, TF0), (TF2, TF1, TF1, TF9, TF0),
	(TF0, TF0, TF0, TF10, TF0), (TF1, TF0, TF0, TF10, TF0), (TF2, TF1, TF1, TF10, TF0),
	(TF0, TF0, TF1, TF11, TF0), (TF1, TF0, TF0, TF11, TF0), (TF2, TF1, TF1, TF11, TF0), (TF0, TF0, TF0, TF12, TF0), (TF1, TF0, TF0, TF12, TF0), (TF2, TF1, TF1, TF12, TF0),
	(TF0, TF0, TF13, TF0), (TF1, TF0, TF0, TF13, TF0), (TF2, TF1, TF1, TF13, TF0),
	(TF0, TF0, TF0, TF14, TF0), (TF1, TF0, TF0, TF14, TF0), (TF2, TF1, TF1, TF14, TF0),
	(TF0, TF0, TF0, TF15, TF0), (TF1, TF0, TF0, TF15, TF0), (TF2, TF1, TF1, TF15, TF0),
	(TF0, TF0, TF0, TF16, TF0), (TF1, TF0, TF0, TF16, TF0), (TF2, TF1, TF1, TF16, TF0),
	(TF0, TF0, TF0, TF17, TF0), (TF1, TF0, TF0, TF17, TF0), (TF2, TF1, TF1, TF17, TF0), (TF0, TF0, TF0, TF18, TF0), (TF1, TF0, TF0, TF18, TF0), (TF2, TF1, TF1, TF18, TF0),
	(TF0, TF0, TF0, TF16, TF0), (TF1, TF0, TF0, TF16, TF0), (TF2, TF1, TF1, TF16, TF0), (TF0, TF0, TF0, TF1), (TF1, TF0, TF1),
	(TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF0, TF0, TF0, TF6, TF1), (TF1, TF0, TF0, TF6, TF1), (TF2, TF1, TF1, TF6, TF1),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF1), (TF0, TF1), (TF1, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF8, TF1), (TF1, TF0, TF0, TF8, TF1), (TF2, TF1, TF1, TF8, TF1),
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF9, TF1), (TF2, TF1, TF1, TF9, TF1),
	(TF0, TF0, TF10, TF1), (TF1, TF0, TF0, TF10, TF1), (TF2, TF1, TF1, TF10, TF1),
	(TF0, TF0, TF0, TF11, TF1), (TF1, TF0, TF0, TF11, TF1), (TF2, TF1, TF1, TF11, TF1),
	(TF0, TF0, TF1, TF12, TF1), (TF1, TF0, TF0, TF12, TF1), (TF2, TF1, TF1, TF12, TF1), (TF0, TF0, TF0, TF13, TF1), (TF1, TF0, TF0, TF13, TF1), (TF2, TF1, TF1, TF13, TF1),
	(TF0, TF0, TF1, TF13, TF1), (TF1, TF0, TF0, TF13, TF1), (TF2, TF1, TF1, TF14, TF1),
	(TF0, TF0, TF15, TF1), (TF1, TF0, TF0, TF15, TF1), (TF2, TF1, TF1, TF15, TF1),
	(TF0, TF0, TF16, TF1), (TF1, TF0, TF0, TF16, TF1), (TF2, TF1, TF1, TF16, TF1),
	(TF0, TF0, TF0, TF17, TF1), (TF1, TF0, TF0, TF17, TF1), (TF2, TF1, TF1, TF17, TF1),
	(TF0, TF0, TF0, TF18, TF1), (TF1, TF0, TF0, TF18, TF1), (TF2, TF1, TF1, TF18, TF1))

#### 6.10.3.4.1.44.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF1 x 1 code x 12 time slots
	Max. Number of data bits/radio frame	36400 bits
	TFCI code word	32 bits
	Puncturing limit	0,52

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6.10.3.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.45.1 Uplink

6.10.3.4.1.45.1.1 Transport channel parameters

6.10.3.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.10.3.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.45.1.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

# 6.10.3.4.1.45.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	{SF8 x 1 code + SF4 x 1 code}
		x 1 time slot
	Max. Number of data bits/radio frame	1428 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.60

6.10.3.4.1.45.2 Downlink

6.10.3.4.1.45.2.1 Transport channel parameters

6.10.3.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.10.3.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.11.

#### 6.10.3.4.1.45.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 57.6 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, 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)

#### 6.10.3.4.1.45.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1448 bits
	TFCI code word	16 bits
	Puncturing limit	0,6

6.10.3.4.1.46 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.46.1 Uplink

See clause 6.10.3.4.1.4.1.

6.10.3.4.1.46.2 Downlink

6.10.3.4.1.46.2.1 Transport channel parameters

6.10.3.4.1.46.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.46.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB See clause 6.10.3.4.1.18.2.1.1.

6.10.3.4.1.46.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.46.2.1.4 TFCS

TFCS size	30
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1)

#### 6.10.3.4.1.46.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0,8

6.10.3.4.1.47 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.47.1 Uplink

See clause 6.10.3.4.1.4.1.

6.10.3.4.1.47.2 Downlink

6.10.3.4.1.47.2.1 Transport channel parameters

6.10.3.4.1.47.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.47.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

See clause 6.10.3.4.1.20.2.1.1.

6.10.3.4.1.47.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.47.2.1.4 TFCS

TFCS size	36	
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 128 kbps RAB, DCCH)=	
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),	
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),	
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),	
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),	
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),	
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),	
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),	
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1),	
	(TF0, TF0, TF0, TF2, TF1), (TF1, TF0, TF0, TF2, TF1), (TF2, TF1, TF1, TF2, TF1),	
	(TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1),	
	(TF0, TF0, TF0, TF4, TF1), (TF1, TF0, TF0, TF4, TF1), (TF2, TF1, TF1, TF4, TF1),	
	(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1)	

#### 6.10.3.4.1.47.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 10 codes x 1 time slot
	Max. Number of data bits/radio frame	2728 bits
	TFCI code word	32 bits
	Puncturing limit	0,56

6.10.3.4.1.48 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:384 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.48.1 Uplink

See clause 6.10.3.4.1.4.1.

6.10.3.4.1.48.2 Downlink

6.10.3.4.1.48.2.1 Transport channel parameters

6.10.3.4.1.48.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.48.2.1.2 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS RAB

See clause 6.10.3.4.1.22.2.1.1.

6.10.3.4.1.48.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.48.2.1.4 TFCS

TECC size	40
TFCS size	48
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 384 kbps RAB, DCCH)=
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
	(TF0, TF0, TF1, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
	(TF0, TF0, TF0, TF2, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF2, TF0),
	(TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0),
	(TF0, TF0, TF0, TF4, TF0), (TF1, TF0, TF0, TF4, TF0), (TF2, TF1, TF1, TF4, TF0),
	(TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF5, TF0), (TF2, TF1, TF1, TF5, TF0),
	(TF0, TF0, TF0, TF6, TF0), (TF1, TF0, TF0, TF6, TF0), (TF2, TF1, TF1, TF6, TF0),
	(TF0, TF0, TF0, TF7, TF0), (TF1, TF0, TF0, TF7, TF0), (TF2, TF1, TF1, TF7, TF0),
	(TF0, TF0, TF0, TF0, 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)

#### 6.10.3.4.1.48.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 10 codes x 3 time slots
	Max. Number of data bits/radio frame	8248 bits
	TFCI code word	32 bits
	Puncturing limit	0,64

Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB 6.10.3.4.1.49

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.49.1 Uplink

6.10.3.4.1.49.1.1 Transport channel parameters

6.10.3.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.49.1.1.4 TFCS

TFCS	size	12
TFCS		(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=
		(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),
		(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),
		(TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),
		(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)

#### 6.10.3.4.1.49.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.72

6.10.3.4.1.49.2 Downlink

6.10.3.4.1.49.2.1 Transport channel parameters

6.10.3.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.11.

#### 6.10.3.4.1.49.2.1.4 TFCS

TFCS size	12	
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=	
	(TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0),	
	(TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF1, TF0), (TF2, TF1, TF1, TF1, TF0),	
	(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF0, TF1),	
	(TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF1, TF1)	

#### 6.10.3.4.1.49.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0,88

6.10.3.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.50.1 Uplink

6.10.3.4.1.50.1.1 Transport channel parameters

6.10.3.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.5.4.1.13.1.1.1.

6.10.3.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.50.1.1.3 TFCS

TFCS size	8
TFCS	(64 kbps RAB, 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0)
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1)

#### 6.10.3.4.1.50.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	SF1 x 1 code x 1time slot
	Max. Number of data bits/radio frame	3616 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.88

6.10.3.4.1.50.2 Downlink

6.10.3.4.1.50.2.1 Transport channel parameters

6.10.3.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.50.2.1.3 TFCS

TFCS size	8
TFCS	(64 kbps RAB, 64 kbps RAB, DCCH)= (TEO, TEO, TEO, TEO, TEO, TEO, TEO, TEO,
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF0, TF1, TF0), (TF1, TF1, TF0) (TF0, TF0, TF1), (TF1, TF0, TF1), (TF0, TF1, TF1), (TF1, TF1, TF1)

#### 6.10.3.4.1.50.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	SF16 x 11 codes x 1 time slot
	Max. Number of data bits/radio frame	2668 bits
	TFCI code word	16 bits
	Puncturing limit	0,64

6.10.3.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.51.1 Uplink

6.10.3.4.1.51.1.1 Transport channel parameters

6.10.3.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.24.1.1.1.

6.10.3.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.51.1.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

#### 6.10.3.4.1.51.1.2 Physical channel parameters

DPCH Uplink	Midamble	256 chips
	Codes and time slots	SF2 x 1 code x 1 time slot
	Max. Number of data bits/radio frame	2064 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.44

6.10.3.4.1.51.2 Downlink

6.10.3.4.1.51.2.1 Transport channel parameters

6.10.3.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.10.3.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.51.2.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

#### 6.10.3.4.1.51.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2192 bits
	TFCI code word	16 bits
	Puncturing limit	0,48

6.10.3.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.52.1 Uplink

See clause 6.10.3.4.1.51.1.

6.10.3.4.1.52.2 Downlink

6.10.3.4.1.52.2.1 Transport channel parameters

6.10.3.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.10.3.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.52.2.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

#### 6.10.3.4.1.52.2.2 Physical channel parameters

DPCH Downlink	Midamble	512 chips
	Codes and time slots	{SF16 x 8 codes x 1 time slot} +
		{SF16 x 5 codes x 1 time slot}
	Max. Number of data bits/radio frame	3156 bits
	TFCI code word	16 bits
	Puncturing limit	0,44

6.10.3.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:128 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.53.1 Uplink

6.10.3.4.1.53.1.1 Transport channel parameters

6.10.3.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.10.3.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.10.3.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

#### 6.10.3.4.1.53.1.1.4 TFCS

TFCS size	20
TFCS	(Conv. 64 kbps RAB, I/B 128kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, TF2, TF0), (TF0, TF3, TF0), (TF0, TF4, TF0),
	(TF1, TF0, TF0), (TF1, TF1, TF0), (TF1, TF2, TF0), (TF1, TF3, TF0), (TF1, TF4, TF0),
	(TF0, TF0, TF1), (TF0, TF1, TF1), (TF0, TF2, TF1), (TF0, TF3, TF1), (TF0, TF4, TF1),
	(TF1, TF0, TF1), (TF1, TF1, TF1), (TF1, TF2, TF1), (TF1, TF3, TF1), (TF1, TF4, TF1)

# 6.10.3.4.1.53.1.2 Physical channel parameters

DPCH Uplink	Midamble	512 chips
	Codes and time slots	{SF2 x 1 code x 1 time slot} +
		{SF16 x 1 code + SF4 x 1 code} x 1 time slot
	Max. Number of data bits/radio frame	3154 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

6.10.3.4.1.53.2 Downlink

See clause 6.10.3.4.1.52.2.

6.10.3.4.1.54 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.54.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.54.2 Downlink

6.10.3.4.1.54.2.1 Transport channel parameters

6.10.3.4.1.54.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.54.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB See clause 6.10.3.4.1.18.2.1.1.

6.10.3.4.1.54.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.10.3.4.1.54.2.1.4 TFCS

TFCS size	50
TFCS	(I/B 128 kbps RAB, Str. 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),
	(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),
	(TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF4, TF2, TF0),
	(TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF4, TF3, TF0),
	(TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF4, TF4, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),
	(TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF4, TF2, TF1),
	(TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF4, TF3, TF1),
	(TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1), (TF4, TF4, TF1)

#### 6.10.3.4.1.54.2.4 Physical channel parameters

DPCH Downlink	Midamble	512 chips	
	Codes and time slots	{SF16 x 8 codes x 1 time slot} +	
		{SF16 x 5 codes x 1 time slot}	
	Max. Number of data bits/radio frame	3140 bits	
	TFCI code word	32 bits	
	Puncturing limit	0,68	

6.10.3.4.1.55 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.3.4.1.55.1 Uplink

See clause 6.10.3.4.1.24.1.

6.10.3.4.1.55.2 Downlink

6.10.3.4.1.55.2.1 Transport channel parameters

6.10.3.4.1.55.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.10.3.4.1.55.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

See clause 6.10.3.4.1.20.2.1.1.

6.10.3.4.1.55.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

# 6.10.3.4.1.55.2.1.4 TFCS

TFCS size	60
TFCS	(I/B 128 kbps RAB, Str. 128 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),
	(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),
	(TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF4, TF2, TF0),
	(TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF4, TF3, TF0),
	(TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF4, TF4, TF0),
	(TF0, TF5, TF0), (TF1, TF5, TF0), (TF2, TF5, TF0), (TF3, TF5, TF0), (TF4, TF5, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),
	(TF0, TF1, TF1), (TF1, TF1, TF1), (TF2, TF1, TF1), (TF3, TF1, TF1), (TF4, TF1, TF1),
	(TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF4, TF2, TF1),
	(TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF4, TF3, TF1),
	(TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1), (TF4, TF4, TF1)
	(TF0, TF5, TF1), (TF1, TF5, TF1), (TF2, TF5, TF1), (TF3, TF5, TF1), (TF4, TF5, TF1)

# 6.10.3.4.1.55.2.2 Physical channel parameters

DPCH Downlink	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	2176 bits
	TFCI code word	32 bits
	Puncturing limit	0,48

6.10.3.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.10.3.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.1.1 Uplink

6.10.3.4.2.1.1.1 Transport channel parameters

6.10.3.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

Higher Layer	RAB/Sig	nalling RB	RAB	SRB#5
RLC	Logical channel type		DTCH	SHCCH
	RLC mo	de	AM	TM
	Payload	sizes, bit	320	168
	Max data	a rate, bps	64000	16800
	AMD/Trl	D PDU header, bit	16	0
MAC	MAC he	ader, bit	0	0
	MAC mu	ultiplexing	N/A	N/A
Layer 1	TrCH type		USCH	USCH
	TB sizes, bit		336	168
	TFS	TF0, bits	0x336	0x168
		TF1, bits	1x336	1x168
		TF2, bits	2x336	N/A
		TF3, bits	3x336	N/A
		TF4, bits	4x336	N/A
	TTI, ms		20	10
	Coding type		TC	CC 1/2
Ì	CRC, bit		16	16
	Max number of bits/TTI after channel coding		4236	384
	Max number of bits/radio frame before rate matching		2118	384
Ì	RM attribute		135-175	180-220

#### 6.10.3.4.2.1.1.1.2 TFCS for USCH

TFCS size	10
TFCS	(64 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),
	(TF3, TF1), (TF4, TF1)

# 6.10.3.4.2.1.1.1.3 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL SRB for SHCCH mapped on RACH

Higher	RAB/signalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of Radio Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC
					High prio	Low prio	
RLC	Logical channel type	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH
	RLC mode	TM	UM	AM	AM	AM	TM
	Payload sizes, bit	168	136	128	128	128	168
	Max data rate, bps	16800	13600	12800	12800	12800	16800
	AMD/UMD/TrD PDU header, bit	0	8	16	16	16	0

Higher	RAB/signalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of Radio Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC
					High prio	Low prio	
MAC	MAC header, bit	2	26	26	26	26	2
	MAC multiplexing	6 logical channel multiplexing					
Layer 1	TrCH type	RACH					
	TB sizes, bit	170	170	170	170	170	170
	TFS TF0, bits	1x170					
	TTI, ms	10					
	Coding type	CC ½					
	CRC, bit			10	6		
	Max number of bits/TTI after channel coding	388	388	388	388	388	388

# 6.10.3.4.2.1.1.2 Physical channel parameters

PUSCH	Midamble	512 chips
	Codes and time slots	{SF16 x 1 code + SF4 x 1 code}
		x 1 time slot
	Max. Number of data bits/radio frame	1202 bits
	TFCI code word	16 bits
	TPC	2 bits
	Puncturing Limit	0.48

PRACH	Midamble	512 chips
	Codes and time slots	SF8 (alt. SF16) x 1 code x 1
		time slot
	Max. Number of data bits/radio frame	464 (alt. 232)
	Puncturing Limit	1.0 (alt. 0.56)

6.10.3.4.2.1.2 Downlink

6.10.3.4.2.1.2.1 Transport channel parameters

6.10.3.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher Layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	320	160
	Max data rate, bps	256000	16000
	AMD/UMD PDU header, bit	16	8
MAC	MAC header, bit	0	0
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	336	168
	TFS TF0, bits	0x336	0x168
	TF1, bits	1x336	1x168
	TF2, bits	2x336	N/A
	TF3, bits	4x336	N/A
	TF4, bits	8x336	N/A
	TF5, bits	N/A (alt. 12x336)	N/A
	TF6, bits	N/A (alt. 16x336)	N/A
	TTI, ms	10 (alt. 20)	10
	Coding type	TC	CC 1/2
	CRC, bit	16	16
	Max number of bits/TTI after channel coding	8460 (alt. 16908)	384
	Downlink: Max number of bits/radio frame before rate matching	8460 (alt. 8454)	384
Ì	RM attribute	135-175	180-220

#### 6.10.3.4.2.1.2.1.2 TFCS for DSCH

TFCS size	10 (alt. 14)
TFCS	(256 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF0, TF1), (TF1, TF1), (TF2, TF1),
	(TF3, TF1), (TF4, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF1,
	TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1))

6.10.3.4.2.1.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

Higher	RAB/sign	alling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6
layer	User of R	adio Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	RRC
						High prio	Low prio		
RLC	Logical channel type		CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH
	RLC mode		UM	UM	AM	AM	AM	UM	TM
	Payload sizes, bit		160	136 or 120 (note)	128	128	128	160	168
	Max data rate, bps		32000 (alt. 48000)	27200 or 24000 (alt. 40800 or 36000)	25600 (alt. 38400)	25600 (alt. 38400)	25600 (alt. 38400)	32000 (alt. 48000)	33600 (alt. 50400)
	AMD/UMD/TrD PDU header, bit		8	8	16	16	16	8	0
MAC	MAC header, bit		3	27 or 43	27	27	27	3	3
	MAC multiplexing		7 logical channel multiplexing						
Layer 1	TrCH type		FACH						
	TB sizes, bit		171	171	171	171	171	171	171
	TFS	TF0, bits	0x171						
		TF1, bits	1x171						
	TF2, bits TF3, bits		2x171						
			3x171						
		TF4, bits				4x171			
		TF5, bits	N/A (alt. 5x171)						
	TF6, bits		N/A (alt. 6x171)						
	TTI, ms		20						
	Coding type		CC 1/2						
	CRC, bit		16						
	Max number of		1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.	1528 (alt.
	bits/TTI after channel coding		2292)	2292)	2292)	2292)	2292)	2292)	2292)
	Max number of		764 (alt.	764 (alt.	764 (alt.	764 (alt.	764 (alt.	764 (alt.	764 (alt.
	bits/radio frame before rate matching		1146)	1146)	1146)	1146)	1146)	1146)	1146)
NOTE:	MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.								

#### 6.10.3.4.2.1.2.1.4 TFCS for FACH

TFCS size	5 (alt. 7)
TFCS	FACH = TF0, TF1, TF2, TF3, TF4 (alt. FACH = TF0, TF1, TF2, TF3, TF4, TF5, T F6)

#### 6.10.3.4.2.1.2.2 Physical channel parameters

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	4400 bits
	TFCI code word	16 bits
	Puncturing Limit	0.48

SCCPCH (burst	Midamble	512 chips
type 1)	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing Limit	1

SCCPCH (burst	Midamble	256 chips
type 2)	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1364 bits
	TFCI code word	16 bits
	Puncturing Limit	1

6.10.3.4.2.2

Interactive or background / UL: 64 DL: 384 kbps / PS RAB + UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.2.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.2.2 Downlink

6.10.3.4.2.2.2.1 Transport channel parameters

6.10.3.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher Layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	320	160
	Max data rate, bps	384000	16000
	AMD/UMD PDU header, bit	16	8
MAC	MAC header, bit	0	0
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	336	168
	TFS TF0, bits	0x336	0x168
	TF1, bits	1x336	1x168
	TF2, bits	2x336	N/A
	TF3, bits	4x336	N/A
	TF4, bits	8x336	N/A
	TF5, bits	12x336	N/A
	TF6, bits	N/A (alt. 16x336)	N/A
	TF7, bits	N/A (alt. 20x336)	N/A
	TF8, bits	N/A (alt. 24x336)	N/A
	TTI, ms	10 (alt. 20)	10
	Coding type	TC	CC 1/2
	CRC, bit	16	16
Î	Max number of bits/TTI after channel coding	12684 (alt. 25356)	384
	Downlink: Max number of bits/radio frame before rate matching	12684 (alt. 12678)	384
	RM attribute	135-175	180-220

#### 6.10.3.4.2.2.2.1.2 TFCS for DSCH

TFCS size	12 (alt. 18)
TFCS	(384 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF0, TF1), (TF1, TF1),
	(TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7,
	TF0), (TF8, TF0))

6.10.3.4.2.2.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.2.1.2.1.3.

6.10.3.4.2.2.2.1.4 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.4.

# 6.10.3.4.2.2.2.2 Physical channel parameters

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 8 codes x 3 time slots
	Max. Number of data bits/radio frame	6608 bits
	TFCI code word	16 bits
	Puncturing Limit	0.48

SCCPCH (burst	Midamble	512 chips
type 1)	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing Limit	1

SCCPCH (burst	Midamble	256 chips
type 2)	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1364 bits
	TFCI code word	16 bits
	Puncturing Limit	1

6.10.3.4.2.3 Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.10.3.4.2.3.1 Uplink

See clause 6.10.3.4.2.1.1.

6.10.3.4.2.3.2 Downlink

6.10.3.4.2.3.2.1 Transport channel parameters

6.10.3.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher	RAB/Signalling RB	RAB	SRB#5
Layer			
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	640	160
	Max data rate, bps	2048000	16000
	AMD/UMD PDU header, bit	16	8
MAC	MAC header, bit	0	0
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	656	168
	TFS TF0, bits	0x656	0x168
	TF1, bits	1x656	1x168
	TF2, bits	2x656	N/A
	TF3, bits	4x656	N/A
	TF4, bits	8x656	N/A
	TF5, bits	12x656	N/A
	TF6, bits	16x656	N/A
	TF7, bits	20x656	N/A
	TF8, bits	24x656	N/A
	TF9, bits	28x656	N/A
	TF10, bits	32x656	N/A
	TF11, bits	N/A (alt. 36x656)	N/A
	TF12, bits	N/A (alt. 40x656)	N/A
	TF13, bits	N/A (alt. 44x656)	N/A
	TF14, bits	N/A (alt. 48x656)	N/A
	TF15, bits	N/A (alt. 52x656)	N/A
	TF16, bits	N/A (alt. 56x656)	N/A
	TF17, bits	N/A (alt. 60x656)	N/A
	TF18, bits	N/A (alt. 64x656)	N/A
	TTI, ms	10 (alt. 20)	10
	Coding type	TC	CC ½
Ì	CRC, bit	16	16
	Max number of bits/TTI after channel coding	64524 (alt. 129036)	384
	Downlink: Max number of bits/radio frame	64524 (alt. 64518)	384
	before rate matching RM attribute	135-175	180-220

# 6.10.3.4.2.3.2.1.2 TFCS for DSCH

TFCS size	22 (alt. 38)
TFCS	(2048 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7, TF0),
	(TF8, TF0), (TF9, TF0), (TF10, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1)
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0), (TF9, TF0), (TF10, TF0), (TF11, TF0), (TF12, TF0), (TF13, TF0), (TF14, TF0),
	(TF15, TF0), (TF16, TF0), (TF17, TF0), (TF18, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1), (TF9, TF1), (TF10, TF1), (TF11, TF1), (TF12, TF1), (TF13, TF1), (TF14, TF1), (TF15,
	TF1), (TF16, TF1), (TF17, TF1), (TF18, TF1))

6.10.3.4.2.3.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.2.1.2.1.3.

6.10.3.4.2.3.2.1.4 TFCS for FACH

See clause 6.10.3.4.2.1.2.1.4.

6.10.3.4.2.3.2.2 Physical channel parameters

PDSCH	Midamble	256 chips
	Codes and time slots	SF16 x 12 codes x 11 time slots
	Max. Number of data bits/radio frame	36416 bits (alt. 36400 bits)
	TFCI code word	16 bits (alt. 32 bits)
	Puncturing Limit	0.56

SCCPCH (burst	Midamble	512 chips
type 1)	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1204 bits
	TFCI code word	16 bits
	Puncturing Limit	1

SCCPCH (burst	Midamble	256 chips
type 2)	Codes and time slots	SF16 x 5 codes x 1 time slot
	Max. Number of data bits/radio frame	1364 bits
	TFCI code word	16 bits
	Puncturing Limit	1

6.10.3.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.10.3.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH SHCCH and BCCH

6.10.3.4.3.1.1 Uplink

6.10.3.4.3.1.1.1 Transport channel parameters

6.10.3.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.10.3.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.10.3.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.10.3.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.10.3.4.3.1.1.1.5 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.2.

6.10.3.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

Higher layer	RAB/signalling RB		SRB#0	SRB#5
	User of	Radio Bearer	RRC	RRC
RLC	Logical	channel type	CCCH	SHCCH
	RLC m	ode	TM	TM
	Payload	d sizes, bit	168	168
	Max da	ta rate, bps	16800	16800
	TrD PD	U header, bit	0	0
MAC	MAC he	eader, bit	2	2
	MAC m	ultiplexing	2 logical chanr	nel multiplexing
Layer 1	TrCH ty	<i>у</i> ре	RA	CH
	TB size	s, bit	1	70
	TFS	TF0, bits	1x170	
	TTI, ms		10	
	Coding type		CC 1/2	
	CRC, bit		16	
	Max nu	mber of bits/TTI after	388	
	channe	I coding		

#### 6.10.3.4.3.1.1.2 Physical channel parameters

Physical channel parameters for uplink DPCH see clause 6.10.3.4.1.4.1.2.

Physical channel parameters for PUSCH see clause 6.10.3.4.2.1.1.2.

Physical channel parameters for PRACH see clause 6.10.3.4.2.1.1.2.

6.10.3.4.3.1.2 Downlink

6.10.3.4.3.1.2.1 Transport channel parameters

6.10.3.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

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.

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.10.3.4.3.1.2.1.5 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.2.

# 6.10.3.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

Higher	RAB/Sigi	nalling RB	SRB#0	SRB#5	SRB#6	
layer	User of F	Radio Bearer	RRC	RRC	RRC	
	Logical c	hannel type	CCCH	SHCCH	BCCH	
	RLC mod	de	UM	UM	TM	
RLC	Payload	sizes, bit	160	160	168	
	Max data	a rate, bps	32000	32000	33600	
	UMD/TrE	PDU header, bit	8	8	0	
MAC	MAC hea	ader, bit		3		
IVIAO	MAC mu	Itiplexing	3 logical channel multiplexing FACH 171			
	TrCH type		FACH			
	TB sizes	MAC multiplexing TrCH type TB sizes, bit TF0, bits TF1, bits	171			
	TF0, bits	TF0, bits	0x171			
		TF1, bits		1x171		
	TFS	TF2, bits		2x171		
		TF3, bits		3x171		
Layer 1		TF4, bits		4x171		
Layo	TTI, ms		10			
	Coding to	ype	CC 1/2			
	CRC, bit		16			
	Max number of bits/TTI after		1528			
	channel					
	Max number of bits/radio frame before rate matching			764		

#### 6.10.3.4.3.1.2.1.7 TFCS for FACH

TFCS size	5
TFCS	FACH = TF0, TF1, TF2, TF3, TF4

# 6.10.3.4.3.1.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.10.3.4.1.4.2.2.

Physical channel parameters for downlink PDSCH see clause 6.10.3.4.2.1.2.2.

Physical channel parameters for SCCPCH see clause 6.10.3.4.2.1.2.2.

6.10.3.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

#### 6.10.3.4.3.2.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.2.2 Downlink

6.10.3.4.3.2.2.1 Transport channel parameters

6.10.3.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.10.3.4.3.2.2.1.5 TFCS for DSCH

See clause 6.10.3.4.2.2.2.1.2.

6.10.3.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.2.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.2.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.10.3.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.10.3.4.2.2.2.2.

Physical channel parameters for SCCPCH see clause 6.10.3.4.2.1.2.2.

6.10.3.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.10.3.4.3.3.1 Uplink

See clause 6.10.3.4.3.1.1.

6.10.3.4.3.3.2 Downlink

6.10.3.4.3.3.2.1 Transport channel parameters

6.10.3.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.10.3.4.3.3.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.10.3.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.10.3.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.3.2.1.1.

6.10.3.4.3.3.2.1.5 TFCS for DSCH

See clause 6.10.3.4.2.3.2.1.2.

6.10.3.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.10.3.4.3.1.2.1.6.

6.10.3.4.3.3.2.1.7 TFCS for FACH

See clause 6.10.3.4.3.1.2.1.7.

6.10.3.4.3.3.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.10.3.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.10.3.4.2.3.2.2.

Physical channel parameters for SCCPCH see clause 6.10.3.4.2.1.2.2.

6.10.3.4.4 Combinations on SCCPCH

6.10.3.4.4.1 Stand-alone signalling RB for PCCH

6.10.3.4.4.1.1 Transport channel parameters

6.10.3.4.4.1.1.1 Transport channel parameter of SRB for PCCH

Higher layer	RAB/signalling RB	SRB
	User of Radio Bearer	RRC
RLC	Logical channel type	PCCH
	RLC mode	TM
	Payload sizes, bit	240 (alt. 80)
	Max data rate, bps	24000 (alt. 8000)
	TrD PDU header, bit	0
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	PCH
	TB sizes, bit	240 (alt. 80)
	TFS TF0, bts	0x240 (alt. 0x80)
	TF1, bits	1x240 (alt. 1x80)
	TF2, bits	2x240 (alt.2x80)
	TTI, ms	20
	Coding type	CC 1/2
	CRC, bit	16
	Max number of bits/TTI before rate	1056 (alt. 400)
	matching	
	Max number of bits/radio frame bet	ore 528 (alt. 200)
	rate matching	
	RM attribute	210-250

# 6.10.3.4.4.1.1.2 TFCS

TFCS size	3
TFCS	SRBs for PCCH = TF0, TF1, TF2

# 6.10.3.4.2.1.2 Physical channel parameters

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 2 codes x 1 time slot
	Max. Number of data bits/radio frame	472 bits
	TFCI code word	16 bits
	Puncturing limit	0,88

6.10.3.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

# 6.10.3.4.4.2.1 Transport channel parameters

# 6.10.3.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

Higher	RAB/signalling RB		RAB
layer	User of Radio Bearer	Bearer Interactive/ Background RAB	
RLC	Logical channel type		DTCH
	RLC mode		AM
	Payload sizes, bit		320
	Max data rate, bps		32000
	AMD PDU header, bit		16
MAC	MAC header, bit		27
IVIAC	MAC multiplexing		N/A
Layer 1	TrCH type		FACH
	TB sizes, bit		363
	TF	D, bits	0 x363
	TFS TF	1, bits	1x363
	TF:	2, bits	2x 363
	TTI, ms		20
	Coding type		TC
	CRC, bit		16
	Max number of bits/TT	I before rate matching	2286
	Max number of bits/rac matching	lio frame before rate	1143
	RM attribute		110-150

# 6.10.3.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

Higher	RAB/signall	ing RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of Rad	lio Bearer	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	RRC
RLC	Logical char	nnel type	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
	RLC mode	•	UM	UM	AM	AM	AM	TM
	Payload size	es, bit	160	136 or 120 (note)	128	128	128	168
	Max data ra	te, bps	32000 (alt. 48000)	27200 or 2400 (alt. 40800 or 36000)	25600 (alt. 38400)	25600 (alt. 38400)	25600 (alt. 38400)	33600 (alt. 50400)
	AMD/UMD/ bit	TrD PDU header,	8	8	16	16	16	0
MAC	MAC heade	r, bit	3	27 or 43	27	27	27	3
IVIAO	MAC multip	lexing		6 logical channel multiplexing				
Layer 1	TrCH type		FACH					
	TB sizes, bit	t	171					
		TF0, bits	0x171					
		TF1, bits	1x171					
		TF2, bits	2x171					
	TFS	TF3, bits	3x171					
		TF4, bits	4x171					
		TF5, bits	N/A (alt. 5x171)					
		TF6, bits	N/A (alt. 6x171)					
	TTI, ms		20					
	Coding type	}			CC			
	CRC, bit		16					
	Max number of bits/TTI before rate matching Max number of bits/radio frame before rate matching		1528 (alt. 2292)					
			764 (alt.1146)					
	RM attribute		200-240					
NOTE:	MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.							

# 6.10.3.4.4.2.1.3 TFCS

TFCS size	15 (alt. 21)
TFCS	(32kbps RAB, SRBs for CCCH/DCCH/BCCH) =
	(TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4),(TF1, TF0), (TF1, TF1), (TF1, TF2),
	(TF1, TF3), (TF1, TF4),(TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4)
	(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF0, TF5), (TF0, TF6),
	(TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4), (TF1, TF5), (TF1, TF6),
	(TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4), (TF2, TF5), (TF2, TF6))

# 6.10.3.4.4.2.2 Physical channel parameters

# (burst type 1):

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1448 bits
	TFCI code word	16 bits
	Puncturing limit	0,6

(burst type 2):

S-CCPCH	Midamble	256 chips
	Codes and time slots	SF16 x 6 codes x 1 time slot
	Max. Number of data bits/radio frame	1640 bits
	TFCI code word	16 bits
	Puncturing limit	0,68

6.10.3.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.10.3.4.4.3.1 Transport channel parameters

6.10.3.4.4.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.10.3.4.4.2.1.

6.10.3.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.10.3.4.4.1.1.

6.10.3.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.10.3.4.4.2.1.2.

#### 6.10.3.4.4.3.1.4 TFCS

TFCS size	45 (alt.63)
TFCS	(32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =
	(TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0,
	TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4), (TF0, TF2, TF0),
	(TF0, TF2, TF1), (TF0, TF2, TF2), (TF0, TF2, TF3), (TF0, TF2, TF4),(TF1, TF0, TF0), (TF1, TF0,
	TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4),(TF1, TF1, TF0), (TF1, TF1, TF1),
	(TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4),(TF1, TF2, TF0), (TF1, TF2, TF1), (TF1, TF2,
	TF2), (TF1, TF2, TF3), (TF1, TF2, TF4),(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2),
	(TF2, TF0, TF3), (TF2, TF0, TF4),(TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1,
	TF3), (TF2, TF1, TF4),(TF2, TF2, TF0), (TF2, TF2, TF1), (TF2, TF2, TF2), (TF2, TF3),
	(TF2, TF2, TF4)
	(alt. (TF0, TF0, TF0), (TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4), (TF0,
	TF0, TF5), (TF0, TF0, TF6),(TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3),
	(TF0, TF1, TF4), (TF0, TF1, TF5), (TF0, TF1, TF6), (TF0, TF2, TF0), (TF0, TF2, TF1), (TF0, TF2,
	TF2), (TF0, TF2, TF3), (TF0, TF2, TF4), (TF0, TF2, TF5), (TF0, TF2, TF6),
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1,
	TF0, TF5), (TF1, TF0, TF6),(TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3),
	(TF1, TF1, TF4), (TF1, TF1, TF5), (TF1, TF1, TF6), (TF1, TF2, TF0), (TF1, TF2, TF1), (TF1, TF2, TF1)
	TF2), (TF1, TF2, TF3), (TF1, TF2, TF4), (TF1, TF2, TF5), (TF1, TF2, TF6),
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2,
	TF0, TF5), (TF2, TF0, TF6), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3),
	(TF2, TF1, TF4), (TF2, TF1, TF5), (TF2, TF1, TF6), (TF2, TF2, TF0), (TF2, TF2, TF1), (TF2, TF2, TF1)
	TF2), (TF2, TF2, TF3), (TF2, TF4), (TF2, TF2, TF5) (TF2, TF2, TF6))

# 6.10.3.4.4.3.2 Physical channel parameters

(burst type 1):

S-CCPCH	Midamble	512 chips
	Codes and time slots	SF16 x 8 codes x 1 time slot
	Max. Number of data bits/radio frame	1920 bits
	TFCI code word	32 bits
	Puncturing limit	0,68

(burst type 2):

S-CCPCH	Midamble	256 chips	
	Codes and time slots	SF16 x 7 codes x 1 time slot	
	Max. Number of data bits/radio frame	1900 bits	
	TFCI code word	32 bits	
	Puncturing limit	0,64	

# 6.10.3.4.5 Combinations on PRACH

6.10.3.4.5.1 SRB for CCCH + SRB for DCCH

6.10.3.4.5.1.1 Transport channel parameters

# 6.10.3.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRB for DCCH

Higher	RAB/signalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4
layer	User of Radio Bearer	RRC	RRC	RRC	NAS_DT	NAS_DT
					High prio	Low prio
RLC	Logical channel type	CCCH	DCCH	DCCH	DCCH	DCCH
	RLC mode	TM	UM	AM	AM	AM
	Payload sizes, bit	168	136	128	128	128
	Max data rate, bps	16800	13600	12800	12800	12800
	AMD/UMD/TrD PDU	0	8	16	16	16
	header, bit					
MAC	MAC header, bit	2	26	26	26	26
	MAC multiplexing		5 logical channel multiplexing			
Layer 1	TrCH type			RACH		
	TB sizes, bit	170	170	170	170	170
	TFS TF0, bits	1x170				
	TTI, ms	10				
	Coding type	CC ½				
	CRC, bit	16				
	Max number of	388	388	388	388	388
	bits/TTI after channel					
	coding					
	Max number of	388	388	388	388	388
	bits/Radio frame					
	before rate matching					

# 6.10.3.4.5.1.1.2 TFCS

TFCS size	1
TFCS	SRBs for CCCH/ DCCH = TF0

#### 6.10.3.4.5.1.2 Physical channel parameters

PRACH	Midamble	512 chips
	Codes and time slots	SF8 (alt. SF16) x 1 code x 1
		time slot
	Max. Number of data bits/radio frame	488 bits (alt. 244 bits)
	Puncturing Limit	1.0 (alt. 0.75)

# 6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

NOTE If not specifically specified then the mid-value of the RM attribute value range as specified by the actual reference radio bearer configuration shall be applied for testing.

# 6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL:8 DL 8 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.23a) with the transport channels parameters of the RAB and TFCS defined as follows:

#### Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	328
	Max data rate, bps	8200
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336 (note)
	TF3, bits	3x336 (note)
	TF4, bits	4x336 (note)
	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)

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
	TF2, bits	2x336 (note)
	TF3, bits	3x336 (note)
	TF4, bits	4x336 (note)
	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

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)

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	128
	Max data rate, bps	6400
	UMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	144
	TFS 0x144	0x144
	1x144	1x144
	TTI, ms	20
	Coding type	CC 1/3
	CRC, bit	16
	Max number of bits/TTI after channel coding	504
	RM attribute	135-175

#### **TFCS**

TFCS size	4
TFCS	(RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

# 6.11.4 Acknowledged Mode Radio Bearer configuration (15 bit Length Indicator)

This configuration is based on the Interactive or background / UL:64 DL 64 kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.26) with the transport channels parameters of the RAB defined as followed.

# Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092
	Uplink: Max number of bits/radio frame before	2046
	rate matching	
	RM attribute	130-170

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Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	4092
	RM attribute	130-170

# 6.11.5 Reference Radio Bearer configurations used in Radio Bearer testing for 1.28 Mcps TDD

# 6.11.5.1 RABs and signalling RBs

See clause 6.10.3.1.

# 6.11.5.2 Combinations of RABs and Signalling RBs

In this document, physical channel parameters for following combinations of RABs and signalling RBs on a CCTrCH are described.

NOTE: It is understood that for speech service the AMR mode may be operated asymmetrically for the uplink and downlink.

#### Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 21) Streaming / unknown / UL:128 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 22) Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 25)Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31)Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.

- 32)Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33)Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34)Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 35)Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 36) Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 37) Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 38) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 39)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 40) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 41) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45)Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 47) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:128 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 48) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:384 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:64 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:64 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
  - + Interactive or background / UL:128 DL:128 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
  - + Streaming / unknown / UL:0 DL:64 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 55) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
  - + Streaming / unknown / UL:0 DL:128 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.

#### Combinations on PDSCH, SCCPCH, PUSCH and PRACH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL:16.8 DL: 16 kbps SRBs for SHCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:3.4 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH
  - + UL: 16.8 DL: 16 kbps SRBs for SHCCH.

#### Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

- 1) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:256 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 2) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:384 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.
- 3) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH
  - + Interactive or background / UL:64 DL:2048 kbps / PS RAB
  - + UL:16.8 kbps SRBs for CCCH and SHCCH
  - + DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH.

#### Combinations on SCCPCH

- 1) Stand-alone 32 kbps SRB for PCCH.
- 2) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for CCCH

- + SRBs for DCCH
- + SRB for BCCH.
- 3) Interactive or background / DL:32 kbps / PS RAB
  - + SRB for PCCH
  - + SRB for CCCH
  - + SRBs for DCCH
  - + SRB for BCCH.

#### Combinations on PRACH

- 1) Interactive or background / UL:32 kbps / PS RAB
  - + SRB for CCCH
  - + SRBs for DCCH.

# 6.11.5.3 Example of linkage between RABs and services

See clause 6.10.3.3.

# 6.11.5.4 Typical radio parameter sets

#### 6.11.5.4.1 Combinations on DPCH

6.11.5.4.1.1 Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.1.1 Uplink

6.11.5.4.1.1.1 Transport channel parameters

6.11.5.4.1.1.1.1 Transport channel parameters for UL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.1.1.

# 6.11.5.4.1.1.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	164 bits
	TFCI code word / radio frame	4 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

#### 6.11.5.4.1.1.2 Downlink

# 6.11.5.4.1.1.2.1 Transport channel parameters

### 6.11.5.4.1.1.2.1.1 Transport channel parameters for DL:1.7 kbps SRBs for DCCH

See clause 6.10.3.4.1.1.2.1.1.

#### 6.11.5.4.1.1.2.1.2 TFCS

See clause 6.10.3.4.1.1.2.1.2.

# 6.11.5.4.1.1.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	164 bits
	TFCI code word / radio frame	4 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.2 Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.2.1 Uplink

6.11.5.4.1.2.1.1 Transport channel parameters

6.11.5.4.1.2.1.1.1 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.2.1.1.2 TFCS

See clause 6.10.3.4.1.2.1.1.2.

# 6.11.5.4.1.2.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	164 bits
	TFCI code word / radio frame	4 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.2.2 Downlink

6.11.5.4.1.2.2.1 Transport channel parameters

6.11.5.4.1.2.2.1.1 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.2.2.1.2 TFCS

See clause 6.10.3.4.1.2.2.1.2.

# 6.11.5.4.1.2.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	164 bits
	TFCI code word / radio frame	4 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.3 Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH

6.11.5.4.1.3.1 Uplink

6.11.5.4.1.3.1.1 Transport channel parameters

6.11.5.4.1.3.1.1.1 Transport channel parameters for UL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.1.1.1.

6.11.5.4.1.3.1.1.2 TFCS

See clause 6.10.3.4.1.3.1.1.2.

#### 6.11.5.4.1.3.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	340 bits
	TFCI code word / radio frame	4 bits
	TPC / radio frame	2x 2 bit
	SS / radio frame	2x 2 bit
	Puncturing Limit	0.64

6.11.5.4.1.3.2 Downlink

6.11.5.4.1.3.2.1 Transport channel parameters

6.11.5.4.1.3.2.1.1 Transport channel parameters for DL:13.6 kbps SRBs for DCCH

See clause 6.10.3.4.1.3.2.1.1.

6.11.5.4.1.3.2.1.2 TFCS

See clause 6.10.3.4.1.3.2.1.2.

# 6.11.5.4.1.3.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	340 bits
	TFCI code word / radio frame	4 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.4 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.4.1 Uplink

6.11.5.4.1.4.1.1 Transport channel parameters

6.11.5.4.1.4.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.4.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.

6.11.5.4.1.4.1.1.3 TFCS

See clause 6.10.3.4.1.4.1.1.3.

### 6.11.5.4.1.4.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60

6.11.5.4.1.4.2 Downlink

6.11.5.4.1.4.2.1 Transport channel parameters

6.11.5.4.1.4.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.4.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.4.2.1.3 TFCS

See clause 6.10.3.4.1.4.2.1.3.

# 6.11.5.4.1.4.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60

6.11.5.4.1.5 Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.5.1 Uplink

6.11.5.4.1.5.1.1 Transport channel parameters

6.11.5.4.1.5.1.1.1 Transport channel parameters for Conversational / speech / UL:10.2 kbps / CS RAB

See clause 6.10.3.4.1.5.1.1.1.

6.11.5.4.1.5.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.5.1.1.3 TFCS

See clause 6.10.3.4.1.5.1.1.3.

#### 6.11.5.4.1.5.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.5.2 Downlink

6.11.5.4.1.5.2.1 Transport channel parameters

6.11.5.4.1.5.2.1.1 Transport channel parameters for Conversational / speech / DL:10.2 kbps / CS RAB

See clause 6.10.3.4.1.5.2.1.1.

6.11.5.4.1.5.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.5.2.1.3 TFCS

See clause 6.10.3.4.1.5.2.1.3.

# 6.11.5.4.1.5.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.6 Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.6.1 Uplink

6.11.5.4.1.6.1.1 Transport channel parameters

6.11.5.4.1.6.1.1.1 Transport channel parameters for Conversational / speech / UL:7.95 kbps / CS RAB

See clause 6.10.3.4.1.6.1.1.1.

6.11.5.4.1.6.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.6.1.1.3 TFCS

See clause 6.10.3.4.1.6.1.1.3.

#### 6.11.5.4.1.6.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.80

6.11.5.4.1.6.2 Downlink

6.11.5.4.1.6.2.1 Transport channel parameters

6.11.5.4.1.6.2.1.1 Transport channel parameters for Conversational / speech / DL:7.95 kbps / CS RAB See clause 6.10.3.4.1.6.2.1.1.

6.11.5.4.1.6.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.6.2.1.3 TFCS

See clause 6.10.3.4.1.6.2.1.3.

# 6.11.5.4.1.6.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.80

6.11.5.4.1.7 Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.7.1 Uplink

6.11.5.4.1.7.1.1 Transport channel parameters

6.11.5.4.1.7.1.1.1 Transport channel parameters for Conversational / speech / UL:7.4 kbps / CS RAB

See clause 6.10.3.4.1.7.1.1.1

6.11.5.4.1.7.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.7.1.1.3 TFCS

See clause 6.10.3.4.1.7.1.1.3.

# 6.11.5.4.1.7.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.80

6.11.5.4.1.7.2 Downlink

6.11.5.4.1.7.2.1 Transport channel parameters

6.11.5.4.1.7.2.1.1 Transport channel parameters for Conversational / speech / DL:7.4 kbps / CS RAB

See clause 6.10.3.4.1.7.2.1.1

6.11.5.4.1.7.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.11.5.4.1.7.2.1.3 TFCS

See clause 6.10.3.4.1.7.2.1.3

# 6.11.5.4.1.7.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.80

6.11.5.4.1.8 Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.8.1 Uplink

6.11.5.4.1.8.1.1 Transport channel parameters

6.11.5.4.1.8.1.1.1 Transport channel parameters for Conversational / speech / UL:6.7 kbps / CS RAB

See clause 6.10.3.4.1.8.1.1.1.

6.11.5.4.1.8.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

6.11.5.4.1.8.1.1.3 TFCS

See clause 6.10.3.4.1.8.1.1.3.

#### 6.11.5.4.1.8.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.88

6.11.5.4.1.8.2 Downlink

6.11.5.4.1.8.2.1 Transport channel parameters

6.11.5.4.1.8.2.1.1 Transport channel parameters for Conversational / speech / DL:6.7 kbps / CS RAB

See clause 6.10.3.4.1.8.2.1.1

6.11.5.4.1.8.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

6.11.5.4.1.8.2.1.3 TFCS

See clause 6.10.3.4.1.8.2.1.3

# 6.11.5.4.1.8.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.88

6.11.5.4.1.9 Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.9.1 Uplink

6.11.5.4.1.9.1.1 Transport channel parameters

6.11.5.4.1.9.1.1.1 Transport channel parameters for Conversational / speech / UL:5.9 kbps / CS RAB

See clause 6.10.3.4.1.9.1.1.1.

6.11.5.4.1.9.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.9.1.1.3 TFCS

See clause 6.10.3.4.1.9.1.1.3.

#### 6.11.5.4.1.9.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.92

6.11.5.4.1.9.2 Downlink

6.11.5.4.1.9.2.1 Transport channel parameters

6.11.5.4.1.9.2.1.1 Transport channel parameters for Conversational / speech / DL:5.9 kbps / CS RAB See clause 6.10.3.4.1.9.2.1.1.

6.11.5.4.1.9.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.9.2.1.3 TFCS

See clause 6.10.3.4.1.9.2.1.3

# 6.11.5.4.1.9.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.92

6.11.5.4.1.10 Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.10.1 Uplink

6.11.5.4.1.10.1.1 Transport channel parameters

6.11.5.4.1.10.1.1.1 Transport channel parameters for Conversational / speech / UL:5.15 kbps / CS RAB See clause 6.10.3.4.1.10.1.1.1.

6.11.5.4.1.10.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.10.1.1.3 TFCS

See clause 6.10.3.4.1.10.1.1.3.

# 6.11.5.4.1.10.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.96

6.11.5.4.1.10.2 Downlink

6.11.5.4.1.10.2.1 Transport channel parameters

6.11.5.4.1.10.2.1.1 Transport channel parameters for Conversational / speech / DL:5.15 kbps / CS RAB See clause 6.10.3.4.1.10.2.1.1.

6.11.5.4.1.10.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.10.2.1.3 TFCS

See clause 6.10.3.4.1.10.2.1.3.

# 6.11.5.4.1.10.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.96

6.11.5.4.1.11 Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB + UL:1.7 DL:1.7 kbps SRBs for DCCH

6.11.5.4.1.11.1 Uplink

6.11.5.4.1.11.1.1 Transport channel parameters

6.11.5.4.1.11.1.1 Transport channel parameters for Conversational / speech / UL:4.75 kbps / CS RAB See clause 6.10.3.4.1.11.1.1.

6.11.5.4.1.11.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.11.1.3 TFCS

See clause 6.10.3.4.1.11.1.3.

# 6.11.5.4.1.11.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.11.2 Downlink

6.11.5.4.1.11.2.1 Transport channel parameters

6.11.5.4.1.11.2.1.1 Transport channel parameters for Conversational / speech / DL:4.75 kbps / CS RAB See clause 6.10.3.4.1.11.2.1.1.

6.11.5.4.1.11.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.11.2.1.3 TFCS

See clause 6.10.3.4.1.11.2.1.3.

#### 6.11.5.4.1.11.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 2 code x 2 time slots
	Max. Number of data bits / radio frame	328 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.12 Conversational / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.12.1 Uplink

6.11.5.4.1.12.1.1 Transport channel parameters

6.11.5.4.1.12.1.1.1 Transport channel parameters for conversational / unknown / UL:28.8 kbps / CS RAB See clause 6.10.3.4.1.12.1.1.1.

6.11.5.4.1.12.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.12.1.1.3 TFCS

See clause 6.10.3.4.1.12.1.1.3.

#### 6.11.5.4.1.12.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF 4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.12.2 Downlink

6.11.5.4.1.12.2.1 Transport channel parameters

6.11.5.4.1.12.2.1.1 Transport channel parameters for conversational / unknown / DL:28.8 kbps / CS RAB See clause 6.10.3.4.1.12.2.1.1.

6.11.5.4.1.12.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.12.2.1.3 TFCS

See clause 6.10.3.4.1.12.2.1.3.

# 6.11.5.4.1.12.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.13 Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.13.1 Uplink

6.11.5.4.1.13.1.1 Transport channel parameters

6.11.5.4.1.13.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.13.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.13.1.1.3 TFCS

See clause 6.10.3.4.1.13.1.1.3.

#### 6.11.5.4.1.13.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	1392 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.13.2 Downlink

6.11.5.4.1.13.2.1 Transport channel parameters

6.11.5.4.1.13.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.13.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.13.2.1.3 TFCS

See clause 6.10.3.4.1.13.2.1.3.

# 6.11.5.4.1.13.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF 16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1392 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.14 Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.14.1 Uplink

6.11.5.4.1.14.1.1 Transport channel parameters

6.11.5.4.1.14.1.1.1 Transport channel parameters for Conversational / unknown / UL:32 kbps / CS RAB See clause 6.10.3.4.1.14.1.1.1.

6.11.5.4.1.14.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.14.1.1.3 TFCS

See clause 6.10.3.4.1.14.1.1.3.

#### 6.11.5.4.1.14.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	688 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS/ radio frame	2x 2 bits
	Puncturing Limit	0.60

6.11.5.4.1.14.2 Downlink

6.11.5.4.1.14.2.1 Transport channel parameters

6.11.5.4.1.14.2.1.1 Transport channel parameters for Conversational / unknown / DL:32 kbps / CS RAB See clause 6.10.3.4.1.14.2.1.1.

6.11.5.4.1.14.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.14.2.1.3 TFCS

See clause 6.10.3.4.1.14.2.1.3.

# 6.11.5.4.1.14.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	699 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.60

6.11.5.4.1.15 Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.15.1 Uplink

6.11.5.4.1.15.1.1 Transport channel parameters

6.11.5.4.1.15.1.1.1 Transport channel parameters for Streaming / unknown / UL: 14.4 kbps / CS RAB See clause 6.10.3.4.1.15.1.1.1.

6.11.5.4.1.15.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.15.1.1.3 TFCS

See clause 6.10.3.4.1.15.1.1.3.

# 6.11.5.4.1.15.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots / radio frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	688 bits
	TFCI code word / radio frame	8 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	1

6.11.5.4.1.15.2 Downlink

6.11.5.4.1.15.2.1 Transport channel parameters

6.11.5.4.1.15.2.1.1 Transport channel parameters for Streaming / unknown / DL:14.4 kbps / CS RAB See clause 6.10.3.4.1.15.2.1.1.

6.11.5.4.1.15.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.15.2.1.3 TFCS

See clause 6.10.3.4.1.15.2.1.3.

# 6.11.5.4.1.15.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 3 code x 2 time slots
	Max. Number of data bits / radio	512 bits
	TFCI code word / radio frame	8 bits
		0 40.00
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.88

6.11.5.4.1.16 Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.16.1 Uplink

6.11.5.4.1.16.1.1 Transport channel parameters

6.11.5.4.1.16.1.1.1 Transport channel parameters for Streaming / unknown / UL:28.8 kbps / CS RAB See clause 6.10.3.4.1.16.1.1.1.

6.11.5.4.1.16.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.16.1.1.3 TFCS

See clause 6.10.3.4.1.16.1.1.3.

#### 6.11.5.4.1.16.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ frame	SF4 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.16.2 Downlink

6.11.5.4.1.16.2.1 Transport channel parameters

6.11.5.4.1.16.2.1.1 Transport channel parameters for Streaming / unknown / DL:28.8 kbps / CS RAB See clause 6.10.3.4.1.16.2.1.1.

6.11.5.4.1.16.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.16.2.1.3 TFCS

See clause 6.10.3.4.1.16.2.1.3.

## 6.11.5.4.1.16.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 4 code x 2 time slots
	Max. Number of data bits / radio frame	680 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.17 Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.17.1 Uplink

6.11.5.4.1.17.1.1 Transport channel parameters

6.11.5.4.1.17.1.1.1 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.17.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.17.1.1.3 TFCS

See clause 6.10.3.4.1.17.1.1.3.

#### 6.11.5.4.1.17.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72

6.11.5.4.1.17.2 Downlink

6.11.5.4.1.17.2.1 Transport channel parameters

6.11.5.4.1.17.2.1.1 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.17.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.17.2.1.3 TFCS

See clause 6.10.3.4.1.17.2.1.3.

## 6.11.5.4.1.17.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits / radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.72

6.11.5.4.1.18 Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.18.1 Uplink

6.11.5.4.1.18.1.1 Transport channel parameters

6.11.5.4.1.18.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB N/A.

6.11.5.4.1.18.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.18.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.18.1.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

6.11.5.4.1.18.2 Downlink

6.11.5.4.1.18.2.1 Transport channel parameters

6.11.5.4.1.18.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB

See clause 6.10.3.4.1.18.2.1.1.

6.11.5.4.1.18.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.18.2.1.3 TFCS

See clause 6.10.3.4.1.18.2.1.3.

#### 6.11.5.4.1.18.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots / radio frame	SF16 x 8 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS / radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.19 Streaming / unknown / UL:64 DL:0 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.19.1 Uplink

6.11.5.4.1.19.1.1 Transport channel parameters

6.11.5.4.1.19.1.1.1 Transport channel parameters for Streaming / unknown / UL:64 kbps / CS or PS RAB See clause 6.10.3.4.1.19.1.1.1.

6.11.5.4.1.19.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.19.1.1.3 TFCS

See clause 6.10.3.4.1.19.1.1.3.

#### 6.11.5.4.1.19.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots / radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS/ radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.19.2 Downlink

6.11.5.4.1.19.2.1 Transport channel parameters

6.11.5.4.1.19.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

N/A.

6.11.5.4.1.19.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.19.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.2.

6.11.5.4.1.19.2.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

6.11.5.4.1.20 Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.20.1 Uplink

6.11.5.4.1.20.1.1 Transport channel parameters

6.11.5.4.1.20.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A

6.11.5.4.1.20.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.20.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.20.1.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

6.11.5.4.1.20.2 Downlink

6.11.5.4.1.20.2.1 Transport channel parameters

6.11.5.4.1.20.2.1.1 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS

RAB

See clause 6.10.3.4.1.20.2.1.1.

6.11.5.4.1.20.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.20.2.1.3 TFCS

See clause 6.10.3.4.1.20.2.1.3.

## 6.11.5.4.1.20.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS/ radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.21 Streaming / unknown / UL:128 DL:0 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.21.1 Uplink

6.11.5.4.1.21.1.1 Transport channel parameters

6.11.5.4.1.21.1.1.1 Transport channel parameters for Streaming / unknown / UL:128 kbps / CS or PS

RAB

See clause 6.10.3.4.1.21.1.1.1.

6.11.5.4.1.21.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.21.1.1.3 TFCS

See clause 6.10.3.4.1.21.1.1.3.

#### 6.11.5.4.1.21.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots / radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2x 2 bits
	SS/ radio frame	2x 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.21.2 Downlink

6.11.5.4.1.21.2.1 Transport channel parameters

6.11.5.4.1.21.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS or PS RAB

N/A.

6.11.5.4.1.21.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.21.2.1.3 TFCS

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.21.2.2 Physical channel parameters

See clause 6.11.5.4.1.2.2.2.

6.11.5.4.1.22 Streaming / unknown / UL:0 DL:384 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.22.1 Uplink

6.11.5.4.1.22.1.1 Transport channel parameters

6.11.5.4.1.22.1.1.1 Transport channel parameters for Streaming / unknown / UL:0 kbps / CS or PS RAB

N/A.

6.11.5.4.1.22.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.22.1.1.3 TFCS

See clause 6.10.3.4.1.2.1.1.2.

6.11.5.4.1.22.1.2 Physical channel parameters

See clause 6.11.5.4.1.2.1.2.

6.11.5.4.1.22.2 Downlink

6.11.5.4.1.22.2.1 Transport channel parameters

6.11.5.4.1.22.2.1.1 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS

RAB

See clause 6.10.3.4.1.22.2.1.1.

6.11.5.4.1.22.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.22.2.1.3 TFCS

See clause 6.10.3.4.1.22.2.1.3.

## 6.11.5.4.1.22.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1code x 6 time slots	SF1 x 1 code x 4 time slots
	Max. Number of data bits / radio frame	8424 bits	8212 bits
	TFCI code word / radio frame	16 bits	16 bits
	TPC / radio frame	2x 2 bits	2x 3 bits
	SS/ radio frame	2x 2 bits	2x 3 bits
	Puncturing Limit	0.68	0.68

6.11.5.4.1.23 Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.23.1 Uplink

6.11.5.4.1.23.1.1 Transport channel parameters

6.11.5.4.1.23.1.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1

6.11.5.4.1.23.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1

6.11.5.4.1.23.1.1.3 TFCS

See clause 6.10.3.4.1.23.1.1.3

#### 6.11.5.4.1.23.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF 2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	1

6.11.5.4.1.23.2 Downlink

6.11.5.4.1.23.2.1 Transport channel parameters

6.11.5.4.1.23.2.1.1 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB

See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.23.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.23.2.1.3 TFCS

See clause 6.10.3.4.1.23.2.1.3.

## 6.11.5.4.1.23.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 2 codes x 2 time slots
	Max. Number of data bits/radio frame	336 bits
	TFCI code word/ radio frame	8 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.84

6.11.5.4.1.24 Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.24.1 Uplink

6.11.5.4.1.24.1.1 Transport channel parameters

6.11.5.4.1.24.1.1.1 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB

See clause 6.10.3.4.1.24.1.1.1.

6.11.5.4.1.24.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.24.1.1.3 TFCS

See clause 6.10.3.4.1.24.1.1.3.

#### 6.11.5.4.1.24.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.6

6.11.5.4.1.24.2 Downlink

See clause 6.11.5.4.1.23.2

6.11.5.4.1.25 Interactive or background / UL:32 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.25.1 Uplink

See clause 6.11.5.4.1.23.1.

6.11.5.4.1.25.2 Downlink

6.11.5.4.1.25.2.1 Transport channel parameters

6.11.5.4.1.25.2.1.1 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB

See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.25.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.25.2.1.3 TFCS

See clause 6.10.3.4.1.25.2.1.3.

# 6.11.5.4.1.25.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 8 codes x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit/ radio frame	0.6

6.11.5.4.1.26 Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.26.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.26.2 Downlink

See clause 6.11.5.4.1.25.2.

6.11.5.4.1.27 Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs

for DCCH

6.11.5.4.1.27.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.27.2 Downlink

6.11.5.4.1.27.2.1 Transport channel parameters

6.11.5.4.1.27.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.27.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.27.2.1.3 TFCS

See clause 6.10.3.4.1.27.2.1.3.

## 6.11.5.4.1.27.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots
	Max. Number of data bits/radio frame	3144 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.72

6.11.5.4.1.28 Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

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6.11.5.4.1.28.1 Uplink

6.11.5.4.1.28.1.1 Transport channel parameters

6.11.5.4.1.28.1.1.1 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.28.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.28.1.1.3 TFCS

See clause 6.10.3.4.1.28.1.1.3.

#### 6.11.5.4.1.28.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF1 x 1 codes x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.28.2 Downlink

See clause 6.11.5.4.1.27.2.

6.11.5.4.1.29 Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs

for DCCH

6.11.5.4.1.29.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.29.2 Downlink

6.11.5.4.1.29.2.1 Transport channel parameters

6.11.5.4.1.29.2.1.1 Transport channel parameters for Interactive or background / DL:144 kbps / PS RAB

See clause 6.10.3.4.1.29.2.1.1.

6.11.5.4.1.29.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.29.2.1.3 TFCS

See clause 6.10.3.4.1.29.2.1.3.

#### 6.11.5.4.1.29.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots
	Max. Number of data bits/radio frame	3144 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.30 Interactive or background / UL:144 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.30.1 Uplink

6.11.5.4.1.30.1.1 Transport channel parameters

6.11.5.4.1.30.1.1.1 Transport channel parameters for Interactive or background / UL:144 kbps / PS RAB

6.11.5.4.1.30.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

See clause 6.10.3.4.1.30.1.1.1.

6.11.5.4.1.30.1.1.3 TFCS

See clause 6.10.3.4.1.30.1.1.3.

# 6.11.5.4.1.30.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	(SF1 x 1 code x 2 time slots) +	SF1 x 1code x 2 time slots
		(SF2 x 1 code x 2 time slots)	
	Max. Number of data bits/radio frame	4200 bits	4188 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2* 3bits
	SS/ radio frame	2*2 bits	2* 3bits
	Puncturing Limit	0.88	0.84

6.11.5.4.1.30.2 Downlink

See clause 6.11.5.4.1.29.2.

6.11.5.4.1.31 Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.31.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.31.2 Downlink

6.11.5.4.1.31.2.1 Transport channel parameters

6.11.5.4.1.31.2.1.1 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB

See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.31.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.31.2.1.3 TFCS

See clause 6.10.3.4.1.31.2.1.3.

6.11.5.4.1.31.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	5608 bits
	TFCI code word/ radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.32 Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.32.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.32.2 Downlink

6.11.5.4.1.32.2.1 Transport channel parameters

6.11.5.4.1.32.2.1.1 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.3.4.1.32.2.1.1.

6.11.5.4.1.32.2.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.32.2.1.3 TFCS

See clause 6.10.3.4.1.32.2.1.3.

6.11.5.4.1.32.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 6 time slots	SF1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8424 bits	8412 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.64	0.64

6.11.5.4.1.33 Interactive or background / UL:128 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.33.1 Uplink

See clause 6.11.5.4.1.28.1

6.11.5.4.1.33.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.34 Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.34.1 Uplink

6.11.5.4.1.34.1.1 Transport channel parameters

6.11.5.4.1.34.1.1.1 Transport channel parameters for Interactive or background / UL:384 kbps / PS RAB

See clause 6.10.3.4.1.34.1.1.1.

6.11.5.4.1.34.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.34.1.1.3 TFCS

See clause 6.10.3.4.1.34.1.1.3.

#### 6.11.5.4.1.34.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	SF 1 x 1 code x 6 time slots	SF 1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8424 bits	8412 bits
	TFCI code word / radio frame	16 bits	24 bits
	TPC / radio frame	2 * 2 bits	3 * 3 bits
	SS / radio frame	2 * 2 bits	3 * 3 bits
	Puncturing Limit	0.64	0.64

6.11.5.4.1.34.2 Downlink

See clause 6.11.5.4.1.32.2.

6.11.5.4.1.35 Interactive or background / UL:64 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.35.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.35.2 Downlink

6.11.5.4.1.35.2.1 Transport channel parameters

# 6.11.5.4.1.35.2.1.1 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1704
	Max data rate, bps	2048000
	RLC header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	1720
	TFS TF0, bits	0x1720
	TF1, bits	1x1720
	TF2, bits	2x1720
	TF3, bits	4x1720
	TF4, bits	8 x1720
	TF5, bits	12x1720
	TF6, bits	N/A (alt. 16x1720)
	TF7, bits	N/A (alt. 20x1720)
	TF8, bits	N/A (alt. 24x1720)
	TTI, ms	10(alt. 20)
	Coding type	No coding
	CRC, bit	24
	Max number of bits/TTI after channel coding	20928 (alt. 41856)
	Max number of bits/radio frame before rate matching	20928 ( alt. 20928)
	RM attribute	130-170

## 6.11.5.4.1.35.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1

## 6.11.5.4.1.35.2.1.3 TFCS

TFCS size	12 (alt.18)
TFCS	(2048 kbps RAB, DCCH)=
1	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1),
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1),
	(TF8, TF1))

# 6.11.5.4.1.35.2.2 Physical channel parameters

DPCH	Modulation	8PSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 10 time slots
	Max. Number of data bits/radio frame	21084 bits
	TFCI code word/ radio frame	24 bits
	TPC/ radio frame	2*3 bits
	SS/ radio frame	2*3 bits
	Puncturing Limit	1

6.11.5.4.1.36 Interactive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.36.1 Uplink

See clause 6.11.5.4.1.28.1.

6.11.5.4.1.36.2 Downlink

See clause 6.11.5.4.1.35.2.

6.11.5.4.1.37 Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps

SRBs for DCCH

6.11.5.4.1.37.1 Uplink

See clause 6.11.5.4.1.34.1.

6.11.5.4.1.37.2 Downlink

See clause 6.11.5.4.1.35.2.

6.10.2.4.1.38 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:32 DL:8 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.38.1 Uplink

6.11.5.4.1.38.1.1 Transport channel parameters

6.11.5.4.1.38.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.38.1.1.2 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

See clause 6.10.3.4.1.23.1.1.1.

6.11.5.4.1.38.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.38.1.1.4 TFCS

See clause 6.10.3.4.1.38.1.1.4.

6.11.5.4.1.38.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 2 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.84

6.11.5.4.1.38.2 Downlink

6.11.5.4.1.38.2.1 Transport channel parameters

6.11.5.4.1.38.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.38.2.1.2 Transport channel parameters for Interactive or background / DL:8 kbps / PS RAB See clause 6.10.3.4.1.23.2.1.1.

6.11.5.4.1.38.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.

6.11.5.4.1.38.2.1.4 TFCS

See clause 6.10.3.4.1.38.2.1.4.

#### 6.11.5.4.1.38.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 3 codes x 2 time slots
	Max. Number of data bits/radio frame	504 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.39 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.39.1 Uplink

See clause 6.11.5.4.1.38.1.

6.11.5.4.1.39.2 Downlink

6.11.5.4.1.39.2.1 Transport channel parameters

6.11.5.4.1.39.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.39.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.39.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.39.2.1.4 TFCS

See clause 6.10.3.4.1.39.2.1.4.

#### 6.11.5.4.1.39.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 10 codes x 2 time
		slots
	Max. Number of data bits/radio frame	1736 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.40 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.11.5.4.1.40.1 Uplink

6.11.5.4.1.40.1.1 Transport channel parameters

6.11.5.4.1.40.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.40.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.24.1.1.1.

6.11.5.4.1.40.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.40.1.1.4 TFCS

See clause 6.10.3.4.1.40.1.1.4.

#### 6.11.5.4.1.40.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
-	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2784 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	1

6.11.5.4.1.40.2 Downlink

See clause 6.11.5.4.1.39.2.

6.11.5.4.1.41 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.41.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.41.2 Downlink

6.11.5.4.1.41.2.1 Transport channel parameters

6.11.5.4.1.41.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.41.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.41.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.41.2.1.4 TFCS

See clause 6.10.3.4.1.41.2.1.4.

#### 6.11.5.4.1.41.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots	SF 16 x 12 codes x 2 time
			slots
	Max. Number of data bits/radio frame	3144 bits	3132 bits
	TFCI code word / radio frame	16 bits	24 bits
	TPC / radio frame	2 * 2 bits	3 x 3 bits
	SS / radio frame	2 * 2 bits	3 x 3 bits
	Puncturing Limit	0.64	0.64

6.11.5.4.1.42 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:256 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.42.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.42.2 Downlink

6.11.5.4.1.42.2.1 Transport channel parameters

6.11.5.4.1.42.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.42.2.1.2 Transport channel parameters for Interactive or background / DL:256 kbps / PS RAB See clause 6.10.3.4.1.31.2.1.1.

6.11.5.4.1.42.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.42.2.1.4 TFCS

See clause 6.10.3.4.1.42.2.1.4.

## 6.11.5.4.1.42.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF1 x 1code x 6 time slots	SF1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8400 bits	8376 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.88	0.88

6.11.5.4.1.43 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:64 DL:384 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.43.1 Uplink

See clause 6.11.5.4.1.40.1.

6.11.5.4.1.43.2 Downlink

6.11.5.4.1.43.2.1 Transport channel parameters

6.11.5.4.1.43.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.43.2.1.2 Transport channel parameters for Interactive or background / DL:384 kbps / PS RAB

See clause 6.10.3.4.1.32.2.1.1.

6.11.5.4.1.43.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.43.2.1.4 TFCS

See clause 6.10.3.4.1.43.2.1.4.

## 6.11.5.4.1.43.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1 code x 6 time slots	SF 1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8408 bits	8388 bits
	TFCI code word / radio frame	32 bits	48 bits
	TPC / radio frame	2 * 2 bits	3 x 3 bits
	SS / radio frame	2 * 2 bits	3 x 3 bits
	Puncturing Limit	0.60	0.60

6.11.5.4.1.44 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Interactive or background / UL:128 DL:2048 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.44.1 Uplink

6.11.5.4.1.44.1.1 Transport channel parameters

6.11.5.4.1.44.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.44.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.44.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.44.1.1.4 TFCS

See clause 6.10.3.4.1.44.1.1.4.

#### 6.11.5.4.1.44.1.2 Physical channel parameters

DPCH Uplink	Modulation	8PSK
	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	4188 bits
	TFCI code word/ radio frame	24 bits
	TPC/ radio frame	2*3 bits
	SS/ radio frame	2*3 bits
	Puncturing Limit	0.88

6.11.5.4.1.44.2 Downlink

6.11.5.4.1.44.2.1 Transport channel parameters

6.11.5.4.1.44.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.44.2.1.2 Transport channel parameters for Interactive or background / DL:2048 kbps / PS RAB

See clause 6.11.5.4.1.35.2.1.1.

6.11.5.4.1.44.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

#### 6.11.5.4.1.44.2.1.4 TFCS

TFCS  (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, 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, TF1, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF3, TF0), (TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF0, TF5, TF0), (TF1, TF0, TF0, TF3, TF0), (TF0, TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF0, TF1), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF1, TF1), (TF1, TF0, TF0, TF1, TF1), (TF2, TF1, TF1, TF2, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF3, TF1), (TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0, TF0, TF0, TF1, TF2, TF1, TF1, TF3, TF1), (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF4, TF1), (TF0, TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF0, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF1, TF0), (TF1, TF0, TF0, TF2, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF3, TF0), (TF1, TF0, TF0, TF3, TF0), (TF2, TF1, TF1, TF1, TF4, TF0), (TF0, TF0, TF0, TF0, TF6), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0, TF0), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF0), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF0, TF1), (TF2, TF1, TF1, TF1, TF1), (TF0, TF0, TF0, TF3, TF1), (TF1, TF0,	TEOO :	
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(TF0, TF0, TF0, TF1), (TF1, TF0, TF0, TF7, TF1), (TF2, TF1, TF1, TF7, TF1),		(TF0, TF0, TF0, TF5, TF1), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1),
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		(TF0, TF0, TF0, TF8, TF1))

For better understanding of the TFCS please note that the following combinations are not included in the table above:(TF2, TF1, TF1, TF5, TF0), (TF1, TF0, TF0, TF5, TF1), (TF2, TF1, TF1, TF5, TF1), (TF2, TF1, TF1, TF8, TF0), (TF1, TF0, TF0, TF0, TF1, TF1, TF1, TF8, TF1)

## 6.11.5.4.1.44.2.2 Physical channel parameters

DPCH	Modulation	8PSK
Downlink	Codes and time slots/ radio frame	SF 1 x 1 code x 10 time slots
	Max. Number of data bits/radio frame	21060 bits
	TFCI code word / radio frame	48 bits
	TPC / radio frame	3 * 3 bits
	SS / radio frame	3 * 3 bits
	Puncturing Limit	1

6.11.5.4.1.45 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.45.1 Uplink

6.11.5.4.1.45.1.1 Transport channel parameters

6.11.5.4.1.45.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.45.1.1.2 Transport channel parameters for Streaming / unknown / UL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.1.1.1.

6.11.5.4.1.45.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.45.1.1.4 TFCS

See clause 6.10.3.4.1.45.1.1.4.

#### 6.11.5.4.1.45.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK
	Codes and time slots/ radio frame	SF2 x 1code x 2 time slots
	Max. Number of data bits/radio frame	1384 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.45.2 Downlink

6.11.5.4.1.45.2.1 Transport channel parameters

6.11.5.4.1.45.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.45.2.1.2 Transport channel parameters for Streaming / unknown / DL:57.6 kbps / CS RAB See clause 6.10.3.4.1.17.2.1.1.

6.11.5.4.1.45.2.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.2.11.

6.11.5.4.1.45.2.1.4 TFCS

See clause 6.10.3.4.1.45.2.1.4.

#### 6.11.5.4.1.45.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 2 time slots
	Max. Number of data bits/radio frame	1560 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.46 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.46.1 Uplink

See clause 6.11.5.4.1.4.1.

6.11.5.4.1.46.2 Downlink

6.11.5.4.1.46.2.1 Transport channel parameters

6.11.5.4.1.46.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.46.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB

See clause 6.10.3.4.1.18.2.1.1.

6.11.5.4.1.46.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.46.2.1.4 TFCS

See clause 6.10.3.4.1.46.2.1.4.

## 6.11.5.4.1.46.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 11 codes x 2 time
		slots
	Max. Number of data bits/radio frame	1912 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.47 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.47.1 Uplink

See clause 6.11.5.4.1.4.1.

6.11.5.4.1.47.2 Downlink

6.11.5.4.1.47.2.1 Transport channel parameters

6.11.5.4.1.47.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.47.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS

See clause 6.10.3.4.1.20.2.1.1.

6.11.5.4.1.47.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.47.2.1.4 TFCS

See clause 6.10.3.4.1.47.2.1.4.

## 6.11.5.4.1.47.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF 16 x 9 codes x 4 time slots	SF 16 x 12 codes x 2 time
			slots
	Max. Number of data bits/radio frame	3128 bits	3108 bits
	TFCI code word / radio frame	32 bits	48 bits
	TPC / radio frame	2 * 2 bits	3 x 3 bits
	SS / radio frame	2 * 2 bits	3 x 3 bits
	Puncturing Limit	0.68	0.68

6.11.5.4.1.48 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Streaming / unknown / UL:0 DL:384 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.48.1 Uplink

See clause 6.11.5.4.1.4.1.

6.11.5.4.1.48.2 Downlink

6.11.5.4.1.48.2.1 Transport channel parameters

6.11.5.4.1.48.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.48.2.1.2 Transport channel parameters for Streaming / unknown / DL:384 kbps / CS or PS RAB

See clause 6.10.3.4.1.22.2.1.1.

6.11.5.4.1.48.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.48.2.1.4 TFCS

See clause 6.10.3.4.1.48.2.1.4.

# 6.11.5.4.1.48.2.2 Physical channel parameters

DPCH	Modulation	QPSK	8PSK
Downlink	Codes and time slots/ radio frame	SF1 x 1code x 6 time slots	SF1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	8408 bits	8388 bits
	TFCI code word/ radio frame	32 bits	48 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.64	0.64

6.11.5.4.1.49 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.49.1 Uplink

6.11.5.4.1.49.1.1 Transport channel parameters

6.11.5.4.1.49.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.1.49.1.1.2 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.49.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.49.1.1.4 TFCS

See clause 6.10.3.4.1.49.1.1.4.

#### 6.11.5.4.1.49.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	1

6.11.5.4.1.49.2 Downlink

6.11.5.4.1.49.2.1 Transport channel parameters

6.11.5.4.1.49.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.1.49.2.1.2 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.49.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.11.

6.11.5.4.1.49.2.1.4 TFCS

See clause 6.10.3.4.1.49.2.1.4.

#### 6.11.5.4.1.49.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF16 x 11 codes x 2 time
		slots
	Max. Number of data bits/radio frame	1912 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.50 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.50.1 Uplink

6.11.5.4.1.50.1.1 Transport channel parameters

6.11.5.4.1.50.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.5.4.1.13.1.1.1.

6.11.5.4.1.50.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.50.1.1.3 TFCS

See clause 6.10.3.4.1.50.1.1.3.

## 6.11.5.4.1.50.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.68

6.11.5.4.1.50.2 Downlink

6.11.5.4.1.50.2.1 Transport channel parameters

6.11.5.4.1.50.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.50.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.50.2.1.3 TFCS

See clause 6.10.3.4.1.50.2.1.3.

#### 6.11.5.4.1.50.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 15 codes x 2 time
		slots
	Max. Number of data bits/radio frame	2616 bits
TFCI code word/ radio frame		16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.51 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:64 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.51.1 Uplink

6.11.5.4.1.51.1.1 Transport channel parameters

6.11.5.4.1.51.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.51.1.1.2 Transport channel parameters for Interactive or background / UL:64 kbps / PS RAB See clause 6.10.3.4.1.24.1.1.1.

6.11.5.4.1.51.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.51.1.1.4 TFCS

See clause 6.10.3.4.1.51.1.1.4.

#### 6.11.5.4.1.51.1.2 Physical channel parameters

DPCH	Modulation	QPSK
Uplink	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.51.2 Downlink

6.11.5.4.1.51.2.1 Transport channel parameters

6.11.5.4.1.51.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.51.2.1.2 Transport channel parameters for Interactive or background / DL:64 kbps / PS RAB See clause 6.10.3.4.1.25.2.1.1.

6.11.5.4.1.51.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.51.2.1.4 TFCS

See clause 6.10.3.4.1.51.2.1.4.

#### 6.11.5.4.1.51.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.1.52 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:64 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.52.1 Uplink

See clause 6.11.5.4.1.51.1

6.11.5.4.1.52.2 Downlink

6.11.5.4.1.52.2.1 Transport channel parameters

6.11.5.4.1.52.2.1.1 Transport channel parameters for Conversational / unknown / DL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.2.1.1.

6.11.5.4.1.52.2.1.2 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.52.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.52.2.1.4 TFCS

See clause 6.10.3.4.1.52.2.1.4.

#### 6.11.5.4.1.52.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 12 codes x 4 time
		slots
	Max. Number of data bits/radio frame	4200 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.53 Conversational / unknown / UL:64 DL:64 kbps / CS RAB

+ Interactive or background / UL:128 DL:128 kbps / PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.53.1 Uplink

6.11.5.4.1.53.1.1 Transport channel parameters

6.11.5.4.1.53.1.1.1 Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB

See clause 6.10.3.4.1.13.1.1.1.

6.11.5.4.1.53.1.1.2 Transport channel parameters for Interactive or background / UL:128 kbps / PS RAB

See clause 6.10.3.4.1.28.1.1.1.

6.11.5.4.1.53.1.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.1.53.1.1.4 TFCS

See clause 6.10.3.4.1.53.1.1.4.

#### 6.11.5.4.1.53.1.2 Physical channel parameters

DPCH Uplink	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	SF1 x 1 code x 4 time slots	SF1 x 1code x 2 time slots
	Max. Number of data bits/radio frame	5608 bits	4188 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.88	0.68

6.11.5.4.1.53.2 Downlink

See clause 6.11.5.4.1.52.2.

6.11.5.4.1.54 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.54.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.54.2 Downlink

6.11.5.4.1.54.2.1 Transport channel parameters

6.11.5.4.1.54.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.54.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS or PS RAB

See clause 6.10.3.4.1.18.2.1.1.

6.11.5.4.1.54.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.54.2.1.4 TFCS

See clause 6.10.3.4.1.54.2.1.4.

#### 6.11.5.4.1.54.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF 16 x 12 codes x 4 time
		slots
	Max. Number of data bits/radio frame	4184 bits
	TFCI code word / radio frame	32 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

6.11.5.4.1.55 Interactive or background / UL:64 DL:128 kbps / PS RAB

+ Streaming / unknown / UL:0 DL:128 kbps / CS or PS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

6.11.5.4.1.55.1 Uplink

See clause 6.11.5.4.1.24.1.

6.11.5.4.1.55.2 Downlink

6.11.5.4.1.55.2.1 Transport channel parameters

6.11.5.4.1.55.2.1.1 Transport channel parameters for Interactive or background / DL:128 kbps / PS RAB

See clause 6.10.3.4.1.27.2.1.1.

6.11.5.4.1.55.2.1.2 Transport channel parameters for Streaming / unknown / DL:128 kbps / CS or PS RAB

See clause 6.10.3.4.1.20.2.1.1.

6.11.5.4.1.55.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.1.55.2.1.4 TFCS

See clause 6.10.3.4.1.55.2.1.4.

## 6.11.5.4.1.55.2.2 Physical channel parameters

DPCH	Modulation	QPSK
Downlink	Codes and time slots/ radio frame	SF1 x 1 code x 4 time slots
	Max. Number of data bits/radio frame	5592 bits
	TFCI code word/ radio frame	24 bits
TPC/ radio frame		2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.64

6.11.5.4.2 Combinations on PDSCH, SCCPCH, PUSCH and PRACH

6.11.5.4.2.1 Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.1.1 Uplink

6.11.5.4.2.1.1.1 Transport channel parameters

6.11.5.4.2.1.1.1.1 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB

and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.2.1.1.1.2 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.2.

6.11.5.4.2.1.1.1.3 Transport channel parameters for SRB for CCCH and UL SRBs for DCCH and UL

SRB for SHCCH mapped on RACH

See clause 6.10.3.4.2.1.1.1.3.

#### 6.11.5.4.2.1.1.2 Physical channel parameters

PUSCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 1 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	2792 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	1

Physical channel parameter for PRACH.

See clause 6.11.5.4.5.1.2.

6.11.5.4.2.1.2 Downlink

6.11.5.4.2.1.2.1 Transport channel parameters

6.11.5.4.2.1.2.1.1 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB

and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.2.1.2.1.2 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.2.

# 6.11.5.4.2.1.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

Higher	RAB/sig	nalling RB	SRB#0	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6
layer	User of I	Radio	RRC	RRC	RRC	NAS_DT	NAS_DT	RRC	RRC
	Bearer					High prio	Low prio		
RLC	Logical	channel	CCCH	DCCH	DCCH	DCCH	DCCH	SHCCH	BCCH
	type								
	RLC mo	de	UM	UM	AM	AM	AM	UM	TM
	Payload	sizes, bit	160	136 or 120*	128	128	128	160	168
	Max data	a rate, bps	32000 (alt. 48000)	27200 or 24000 (alt. 40800 or 36000)	25600 (alt. 38400)	25600 (alt. 38400)	25600 (alt. 38400)	32000 (alt. 48000)	33600 (alt. 50400)
	RLC hea	ader, bit	8	8	16	16	16	8	0
MAC	MAC he	ader, bit	3	27 or 43	27	27	27	3	3
	MAC mu	ıltiplexing		7 logical channel multiplexing					
Layer 1	TrCH typ	FACH							
	TB sizes	s, bit	171	171	171	171	171	171	171
	TFS	TF0, bits 0x171							
		TF1, bits	1x171						
		TF2, bits				2x171			
		TF3, bits	F3, bits 3x171						
		TF4, bits				4x171			
		TF5, bits				V/A (alt. 5x171	)		
		TF6, bits				V/A (alt. 6x171	)		
	TTI, ms					20			
	Coding type CRC, bit Max number of bits/TTI after channel coding					CC ½			
						16		_	
			1528 (alt. 2292)	1528 (alt. 2292)	1528 (alt. 2292)	1528 (alt. 2292)	1528 (alt. 2292)	1528 (alt. 2292)	1528 (alt. 2292)

<sup>\*</sup> MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

#### 6.11.5.4.2.1.2.1.4 TFCS for FACH

TFCS size	5 (alt. 7)
TFCS	FACH = TF0, TF1, TF2, TF3, TF4 (alt. FACH = TF0, TF1, TF2, TF3, TF4, TF5, TF6)

# 6.11.5.4.2.1.2.2 Physical channel parameters

PDSCH	Modulation	QPSK	8PSK
	Codes and time slots/ radio frame	SF16 x 11 codes x 6 time	SF1 x 1 code x 4 time slots
		slots	
	Max. Number of data bits/radio frame	5784 bits	6511 bits
	TFCI code word/ radio frame	16 bits	24 bits
	TPC/ radio frame	2*2 bits	2*3 bits
	SS/ radio frame	2*2 bits	2*3 bits
	Puncturing Limit	0.64	0.72

S-CCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF16 x 5 codes x 2 time slots
	Max. Number of data bits/radio frame	856 bits
	TFCI code word/ radio frame	16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.72

6.11.5.4.2.2 Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.2.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.2.2 Downlink

6.11.5.4.2.2.2.1 Transport channel parameters

6.11.5.4.2.2.2.1.1 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB

and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.11.5.4.2.2.2.1.2 TFCS for DSCH

See clause 6.10.3.4.2.2.2.1.2.

6.11.5.4.2.2.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.3.

6.11.5.4.2.2.2.1.4 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.4.

## 6.11.5.4.2.2.2.2 Physical channel parameters

PDSCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 1 x 1 code x 6 time slots
	Max. Number of data bits/radio frame	8424 bits
TFCI code word / radio frame		16 bits
	TPC / radio frame	2 * 2 bits
	SS / radio frame	2 * 2 bits
	Puncturing Limit	0.64

SCCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 16 x 5 codes x 2 time slots
	Max. Number of data bits/radio frame	856 bits
	TFCI code word / radio frame	16 bits
	TPC / radio frame	2 * 2 bits
SS / radio frame		2 * 2 bits
	Puncturing Limit	0.72

6.11.5.4.2.3 Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 DL: 33.6 kbps SRBs for DCCH, CCCH and BCCH

+ UL: 16.8 DL: 16 kbps SRBs for SHCCH

6.11.5.4.2.3.1 Uplink

See clause 6.11.5.4.2.1.1.

6.11.5.4.2.3.2 Downlink

6.11.5.4.2.3.2.1 Transport channel parameters

6.11.5.4.2.3.2.1.1 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

Higher Layer	RAB/Signalling RB	RAB	SRB#5
RLC	Logical channel type	DTCH	SHCCH
	RLC mode	AM	UM
	Payload sizes, bit	1704	160
	Max data rate, bps	2048000	16000
	RLC header, bit	16	8
MAC	MAC header, bit	0	0
	MAC multiplexing	N/A	N/A
Layer 1	TrCH type	DSCH	DSCH
	TB sizes, bit	1720	168
	TFS TF0, bits	0x1720	0x168
	TF1, bits	1x1720	1x168
	TF2, bits	2x1720	N/A
	TF3, bits	4x1720	N/A
	TF4, bits	8x1720	N/A
	TF5, bits	12x1720	N/A
	TF6, bits	N/A (alt. 16x1720)	N/A
	TF7, bits	N/A (alt. 20x1720)	N/A
	TF8, bits	N/A (alt. 24x1720)	N/A
	TTI, ms	10 (alt. 20)	10
	Coding type	No Coding	CC ½
	CRC, bit	24	16
	Max number of bits/TTI after channel coding	20928 (alt. 41856)	384
	Downlink: Max number of bits/radio frame before rate matching	20928 (alt. 20928)	384
	RM attribute	135-175	180-220

#### 6.11.5.4.2.3.2.1.2 TFCS for DSCH

TFCS size	11 (alt.17)
TFCS	(2048 kbps RAB, SHCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1),
	(alt. (TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0), (TF5, TF0), (TF6, TF0), (TF7,
	TF0), (TF8, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1), (TF5, TF1), (TF6, TF1), (TF7, TF1))

For better understanding of the TFCS please note that the following combinations are not included in the table above: (TF5, TF1), (TF8, TF1)

6.11.5.4.2.3.2.1.3 Transport channel parameters for DL SRBs for DCCH and SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.2.1.2.1.3.

6.11.5.4.2.3.2.1.4 TFCS for FACH

See clause 6.11.5.4.2.1.2.1.4.

#### 6.11.5.4.2.3.2.2 Physical channel parameters

PDSCH	Modulation	8PSK
	Codes and time slots/ radio frame	SF1 x 1 code x 10 time slots
	Max. Number of data bits/radio frame	21084 bits
	TFCI code word/ radio frame	24 bits
	TPC/ radio frame	2*3 bits
	SS/ radio frame	2*3 bits
	Puncturing Limit	1

S-CCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF16 x 5 codes x 2 time slots
	Max. Number of data bits/radio frame	856 bits
TFCI code word/ radio frame		16 bits
	TPC/ radio frame	2*2 bits
	SS/ radio frame	2*2 bits
	Puncturing Limit	0.72

#### 6.11.5.4.3 Combinations on PDSCH, SCCPCH, DPCH, PUSCH and PRACH

6.11.5.4.3.1 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 256 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.1.1 Uplink

6.11.5.4.3.1.1.1 Transport channel parameters

6.11.5.4.3.1.1.1.1 Transport channel parameters for Conversational / speech / UL:12.2 / CS RAB

See clause 6.10.3.4.1.4.1.1.1.

6.11.5.4.3.1.1.1.2 Transport channel parameters for UL SRBs for DCCH

See clause 6.10.3.4.1.2.1.1.1.

6.11.5.4.3.1.1.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.1.1.3.

6.11.5.4.3.1.1.1.4 Transport channel parameters for Interactive or background / UL: 64 kbps / PS RAB and UL SRB for SHCCH mapped on USCH

See clause 6.10.3.4.2.1.1.1.1.

6.11.5.4.3.1.1.1.5 TFCS for USCH

See clause 6.10.3.4.2.1.1.1.2.

6.11.5.4.3.1.1.1.6 Transport channel parameters for SRB for CCCH and UL SRB for SHCCH mapped on RACH

See clause 6.10.3.4.3.1.1.1.6.

6.11.5.4.3.1.1.2 Physical channel parameters

Physical channel parameters for uplink DPCH see clause 6.11.5.4.1.4.1.2.

Physical channel parameters for PUSCH see clause 6.11.5.4.2.1.1.2.

Physical channel parameters for PRACH see clause 6.11.5.4.2.1.1.2.

6.11.5.4.3.1.2 Downlink

6.11.5.4.3.1.2.1 Transport channel parameters

6.11.5.4.3.1.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

6.11.5.4.3.1.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.1.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.1.2.1.4 Transport channel parameters for Interactive or background / DL: 256 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.1.2.1.1.

6.11.5.4.3.1.2.1.5 TFCS for DSCH

See clause 6.10.3.4.2.1.2.1.2.

6.11.5.4.3.1.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

Higher	RAB/Sig	nalling RB	SRB#0	SRB#5	SRB#6	
layer		Radio Bearer	RRC	RRC	RRC	
	Logical o	channel type	CCCH	SHCCH	BCCH	
	RLC mo	de	UM	UM	TM	
RLC	Payload	sizes, bit	160	160	168	
	Max data	a rate, bps	32000	32000	33600	
	RLC hea	nder, bit	8	8	0	
MAC	MAC hea	ader, bit		3		
IVIAC	MAC mu	Iltiplexing	31	ogical channel multiplex	ting	
	TrCH typ	oe .	FACH			
	TB sizes	, bit	171			
		TF0, bits	0x171			
		TF1, bits	1x171			
	TFS	TF2, bits	2x171			
		TF3, bits	3x171			
Layer 1		TF4, bits	4x171			
	TTI, ms		20			
	Coding t	ype	CC ½			
	CRC, bit		16			
	Max num channel	nber of bits/TTI after coding	1528			
		nber of bits/radio frame ate matching	764			

#### 6.11.5.4.3.1.2.1.7 TFCS for FACH

TFCS size	5
TFCS	FACH = TF0, TF1,TF2,TF3,TF4

#### 6.11.5.4.3.1.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.1.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.2 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 384 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

#### 6.11.5.4.3.2.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.2.2 Downlink

6.11.5.4.3.2.2.1 Transport channel parameters

6.11.5.4.3.2.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.1.4.1.4.2.1.1.

6.11.5.4.3.2.2.1.2 Transport channel parameters for DL SRBs for DCCH

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.2.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.2.2.1.4 Transport channel parameters for Interactive or background / DL: 384 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.10.3.4.2.2.2.1.1.

6.11.5.4.3.2.2.1.5 TFCS for DSCH

See clause 6.10.3.4.2.2.2.1.2.

6.11.5.4.3.2.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.2.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.2.2.2 Physical channel parameters

Physical channel parameters for downlink for DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for downlink for PDSCH see clause 6.11.5.4.2.2.2.2.

Physical channel parameters for downlink for SCCPCH see clause 6.11.5.4.2.1.2.2.

6.11.5.4.3.3 Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB

+ UL:3.4 DL:3.4 kbps SRBs for DCCH

+ Interactive or background / UL: 64 DL: 2048 kbps / PS RAB

+ UL: 16.8 kbps SRBs for CCCH and SHCCH

+ DL: 33.6 kbps SRBs for CCCH, SHCCH and BCCH

6.11.5.4.3.3.1 Uplink

See clause 6.11.5.4.3.1.1.

6.11.5.4.3.3.2 Downlink

6.11.5.4.3.3.2.1 Transport channel parameters

6.11.5.4.3.3.2.1.1 Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB

See clause 6.10.3.4.1.4.2.1.1.

Transport channel parameters for DL SRBs for DCCH 6.11.5.4.3.3.2.1.2

See clause 6.10.3.4.1.2.2.1.1.

6.11.5.4.3.3.2.1.3 TFCS for DCH

See clause 6.10.3.4.1.4.2.1.3.

6.11.5.4.3.3.2.1.4 Transport channel parameters for Interactive or background / DL: 2048 kbps / PS RAB and DL SRB for SHCCH mapped on DSCH

See clause 6.11.5.4.2.3.2.1.2.

6.11.5.4.3.3.2.1.5 TFCS for DSCH

See clause 6.11.5.4.2.3.2.1.4.

6.11.5.4.3.3.2.1.6 Transport channel parameters for SRB for CCCH and SRB for BCCH and DL SRB for

SHCCH mapped on FACH

See clause 6.11.5.4.3.1.2.1.6.

6.11.5.4.3.3.2.1.7 TFCS for FACH

See clause 6.11.5.4.3.1.2.1.7.

6.11.5.4.3.3.2.2 Physical channel parameters

Physical channel parameters for downlink DPCH see clause 6.11.5.4.1.4.2.2.

Physical channel parameters for PDSCH see clause 6.11.5.4.2.3.2.2.

Physical channel parameters for SCCPCH see clause 6.11.5.4.2.1.2.2.

## 6.11.5.4.4 Combinations on SCCPCH

6.11.5.4.4.1 Stand-alone signalling RB for PCCH

## 6.11.5.4.4.1.1 Transport channel parameters

## 6.11.5.4.4.1.1.1 Transport channel parameter of SRB for PCCH

Higher layer	RAB/signalling RB		SRB	
	User of Radio Bearer		RRC	
RLC	Logical channel type		PCCH	
	RLC mode		TM	
	Payload sizes, bit		240 (alt. 80)	
	Max data rate, bps		24000 (alt. 8000)	
	RLC header, bit		0	
MAC	MAC header, bit		0	
	MAC multiplexing		N/A	
Layer 1	TrCH type		PCH	
	TB sizes, bit		240 (alt. 80)	
	TFS TF0	, bits	0x240 (alt. 0x80)	
	TF1	, bits	1x240 (alt. 1x80)	
	TF2	, bits	2x240 (alt. 2x80)	
	TTI, ms		20	
	Coding type		CC 1/2	
	CRC, bit		16	
	Max number of bits/TTI I matching	before rate	1056 (alt. 400)	
	RM attribute		210-250	

## 6.11.5.4.4.1.1.2 TFCS

TFCS size	3
TFCS	SRBs for PCCH = TF0, TF1,TF2

## 6.11.5.4.4.1.2 Physical channel parameters

S-CCPCH	Modulation	QPSK
	Codes and time slots/ radio frame	SF16 x 2 codes x 2 time slots
	Max. Number of data bits/radio frame	344 bits
	TFCI code word/ radio frame	8 bits
	TPC/ radio frame	0 bits
	SS/ radio frame	0 bits
	Puncturing Limit	0.64

6.11.5.4.4.2 Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH

## 6.11.5.4.4.2.1 Transport channel parameters

## 6.11.5.4.4.2.1.1 Transport channel parameters for Interactive/Background 32 kbps PS RAB

Higher	RAB/signalling RB		RAB		
layer	User of Radio Bearer		Interactive/ Background RAB		
RLC	Logical channel t	ype	DTCH		
	RLC mode		AM		
	Payload sizes, bi	t	320		
	Max data rate, bp	os	32000		
	RLC header, bit		16		
MAC	MAC header, bit		27		
IVIAC	MAC multiplexing		N/A		
Layer 1	TrCH type		FACH		
	TB sizes, bit		363		
		TF0, bits	0 x363		
	TFS	TF1, bits	1x363		
		TF2, bits	2x363		
	TTI, ms		20		
	Coding type		TC		
	CRC, bit		16		
	Max number of b	its/TTI before rate matching	2286		
	RM attribute		110-150		

# 6.11.5.4.4.2.1.2 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

Higher	RAB/signall	ing RB	SRB#1	SRB#2	SRB#3	SRB#4	SRB#5	SRB#6		
layer	User of Rac	lio Bearer	RRC	RRC	RRC	NAS_DT High prio	NAS_DT Low prio	RRC		
RLC	Logical cha	nnel type	CCCH	DCCH	DCCH	DCCH	DCCH	вссн		
	RLC mode	71	UM	UM	AM	AM	AM	TM		
	Payload siz	es, bit	<u>160</u>	13 <u>6</u> or 1 <u>20</u>	12 <u>8</u>	<u>128</u>	<u>128</u>	<u>168</u>		
	Max data rate, bps		32000 (alt. 48000)	27200 or 2400 (alt. 40800 or 36000)	25600 (alt. 38400)	25600 (alt. 38400)	25600 (alt. 38400)	33600 (alt. 50400)		
	RLC heade	r, bit	8	8	16	16	16	0		
MAC	MAC heade	MAC header, bit		27 or 43	27	27	27	3		
IVIAO	MAC multip	lexing		6 logical channel multiplexing						
Layer 1	TrCH type			FACH						
	TB sizes, bit		171							
		TF0, bits				171				
		TF1, bits		1x171						
		TF2, bits	2x171							
	TFS	TF3, bits	3x171							
		TF4, bits	4x171							
		TF5, bits	N/A (alt. 5x171)							
		TF6, bits	N/A (alt. 6x171)							
	TTI, ms		20							
	Coding type	)	CC ½							
	CRC, bit	( ) · · · · · · · · · · · · · · · · · ·				6				
	Max numbe before rate	matching		1528 (alt. 2292)						
	RM attribute	Э			200	-240				

<sup>\*</sup> MAC header size and RLC payload size depend on use of U-RNTI or C-RNTI.

## 6.11.5.4.4.2.1.3 TFCS

TFCS size	15 (alt. 21)
TFCS	(32kbps RAB, SRBs for CCCH/DCCH/BCCH) =
	(TF0, TF0), (TF0, TF1), (TF0, TF2),(TF0, TF3), ), (TF0, TF4), (TF1, TF0), (TF1, TF1), (TF1,
	TF2), (TF1, TF3), (TF1, TF4), (TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4),
	(alt. (TF0, TF0), (TF0, TF1), (TF0, TF2), (TF0, TF3), (TF0, TF4), (TF0, TF5), (TF0, TF6),
	(TF1, TF0), (TF1, TF1), (TF1, TF2), (TF1, TF3), (TF1, TF4), (TF1, TF5), (TF1, TF6),
	(TF2, TF0), (TF2, TF1), (TF2, TF2), (TF2, TF3), (TF2, TF4), (TF2, TF5), (TF2, TF6))

## 6.11.5.4.4.2.2 Physical channel parameters

SCCPCH	Modulation	QPSK		
	Codes and time slots/ radio frame	SF 16 x 9 codes x 2 time slots		
	Max. Number of data bits/radio frame	1560 bits		
	TFCI code word / radio frame	16 bits		
	TPC / radio frame	2 * 2 bits		
	SS / radio frame	2 * 2 bits		
	Puncturing Limit	0.68		

6.11.5.4.4.3 Interactive/Background 32 kbps RAB + SRB for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH

6.11.5.4.4.3.1 Transport channel parameters

6.11.5.4.4.3.1.1 Transport channel parameters of SRB for Interactive/Background 32 kbps RAB

See clause 6.11.5.4.4.2.1.

6.11.5.4.4.3.1.2 Transport channel parameters of SRB for PCCH

See clause 6.11.5.4.4.1.1.

6.11.5.4.4.3.1.3 Transport channel parameters of SRBs for CCCH, SRB for DCCH, and SRB for BCCH

See clause 6.11.5.4.4.2.1.2.

## 6.11.5.4.4.3.1.4 TFCS

-	
TFCS size	45 (alt. 63)
TFCS	(32 kbps RAB, SRB for PCCH, SRBs for CCCH/ DCCH/ BCCH) =
	(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4),(TF0,
	TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0, TF1, TF3), (TF0, TF1, TF4),(TF0, TF2,
	TF0), (TF0, TF2, TF1), (TF0, TF2, TF2), (TF0, TF2, TF3), (TF0, TF2, TF4),(TF1, TF0, TF0),
	(TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4),(TF1, TF1, TF0), (TF1,
	TF1, TF1), (TF1, TF1, TF2), (TF1, TF1, TF3), (TF1, TF1, TF4),(TF1, TF2, TF0), (TF1, TF2,
	TF1), (TF1, TF2, TF2), (TF1, TF2, TF3), (TF1, TF2, TF4),(TF2, TF0, TF0), (TF2, TF0, TF1),
	(TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4),(TF2, TF1, TF0), (TF2, TF1, TF1), (TF2,
	TF1, TF2), (TF2, TF1, TF3), (TF2, TF1, TF4),(TF2, TF2, TF0), (TF2, TF2, TF1), (TF2, TF2,
	TF2), (TF2, TF2, TF3), (TF2, TF4)
	(alt. (TF0, TF0, TF0), (TF0, TF0, TF1), (TF0, TF0, TF2), (TF0, TF0, TF3), (TF0, TF0, TF4),
	(TF0, TF0, TF5), (TF0, TF6), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF1, TF2), (TF0,
	TF1, TF3), (TF0, TF1, TF4), (TF0, TF1, TF5), (TF0, TF1, TF6),(TF0, TF2, TF0), (TF0, TF2,
	TF1), (TF0, TF2, TF2), (TF0, TF2, TF3), (TF0, TF2, TF4), (TF0, TF2, TF5), (TF0, TF2, TF6),
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF0, TF2), (TF1, TF0, TF3), (TF1, TF0, TF4), (TF1,
	TF0, TF5), (TF1, TF0, TF6),(TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF1, TF2), (TF1, TF1,
	TF3), (TF1, TF1, TF4), (TF1, TF1, TF5), (TF1, TF1, TF6),(TF1, TF2, TF0), (TF1, TF2, TF1),
	(TF1, TF2, TF2), (TF1, TF2, TF3), (TF1, TF2, TF4), (TF1, TF2, TF5), (TF1, TF2, TF6),(TF2,
	TF0, TF0), (TF2, TF0, TF1), (TF2, TF0, TF2), (TF2, TF0, TF3), (TF2, TF0, TF4), (TF2, TF0,
	TF5), (TF2, TF0, TF6),(TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF1, TF2), (TF2, TF1, TF3),
	(TF2, TF1, TF4), (TF2, TF1, TF5), (TF2, TF1, TF6),(TF2, TF2, TF0), (TF2, TF2, TF1), (TF2,
	TF2, TF2), (TF2, TF2, TF3), (TF2, TF4), (TF2, TF2, TF5) (TF2, TF2, TF6))

## 6.11.5.4.4.3.2 Physical channel parameters

S-CCPCH	Modulation	QPSK		
	Codes and time slots/ radio frame	SF16 x 10 codes x 2 time		
		slots		
	Max. Number of data bits/radio frame	1728 bits		
	TFCI code word/ radio frame	32 bits		
	TPC/ radio frame	0 bits		
	SS/ radio frame	0 bits		
	Puncturing Limit	0.64		

## 6.11.5.4.5 Combinations on PRACH

6.11.5.4.5.1 SRB for CCCH + SRBs for DCCH

6.11.5.4.5.1.1 Transport channel parameters

## 6.11.5.4.5.1.1.1 Transport channel parameter for SRB for CCCH, SRBs for DCCH

Higher	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4	SRB#5
layer	User of R	adio	RRC	RRC	RRC	NAS_DT	NAS_DT
	Bearer					High prio	Low prio
RLC	Logical ch	nannel	CCCH	DCCH	DCCH	DCCH	DCCH
	type						
	RLC mod	е	TM	UM	AM	AM	AM
	Payload sizes, bit		168	136	128	128	128
	Max data rate, bps		16800	13600	12800	12800	12800
	RLC header, bit		0	8	16	16	16
MAC	MAC header, bit		2	26	26	26	26
MAC multiplexing		tiplexing	5 logical channel multiplexing				
Layer 1	1 TrCH type				RACH		
	TB sizes, bit		170	170	170	170	170
	TFS TF0, bits				1x170		

TTI, ms	10				
Coding type			CC ½		
CRC, bit			16		
Max number of bits/TTI after channel coding	388	388	388	388	388
Max number of bits/Radio frame before rate matching	388	388	388	388	388

6.11.5.4.5.1.1.2 TFCS

See clause 6.10.3.4.5.1.1.2

## 6.11.5.4.5.1.2 Physical channel parameters

PRACH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 8 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	352 bits
	TPC / radio frame	0 bits
	SS / radio frame	0 bits
	Puncturing Limit	0.88

6.11.5.4.5.2 Interactive/Background 32 kbps PS RAB + SRB for CCCH + SRBs for DCCH

## 6.11.5.4.5.2.1 Transport channel parameters

## 6.11.5.4.5.2.1.1 Transport channel parameters for Interactive or background / UL:32 kbps / PS RAB

Higher	RAB/signalling RB		RAB
layer	User of R		Interactive/
	Bearer		Background RAB
RLC	Logical c	hannel	DTCH
	type		
	RLC mod	de	AM
	Payload s	sizes, bit	320
	Max data	rate, bps	32000
	AMD/UM		16
	PDU hea	der, bit	
MAC	MAC header, bit		24
	MAC mul	ltiplexing	
Layer 1	TrCH type		RACH
	TB sizes,	bit	360
	TFS TF0, bits		4 000
	IFO	TFU, DITS	1x360
	TTI, ms	I FU, DITS	1x360 10
		•	
	TTI, ms	•	10
	TTI, ms Coding ty CRC, bit Max num	/pe lber of	10 CC ½
	TTI, ms Coding ty CRC, bit Max num bits/TTI a	/pe ber of ifter	10 CC ½ 16
	TTI, ms Coding ty CRC, bit Max num	/pe ber of ifter	10 CC ½ 16
	TTI, ms Coding ty CRC, bit Max num bits/TTI a channel of	ber of of opening of the coding of bits/	10 CC ½ 16
	TTI, ms Coding ty CRC, bit Max num bits/TTI a channel of	ber of of object of bits/me before	10 CC ½ 16 768

6.11.5.4.5.2.1.2 Transport channel parameters for SRB for CCCH + SRBs for DCCH See the Chapter 6.11.5.4.5.1.1.1.

## 6.11.5.4.5.2.1.3 TFCS

TFCS size	2
TFCS	32 kbps + SRBs for CCCH/ DCCH = TF0, TF1

#### 6.11.5.4.5.2.2 Physical channel parameters

PRACH	Modulation	QPSK
	Codes and time slots/ radio frame	SF 4 x 1 code x 2 time slots
	Max. Number of data bits/radio frame	704 bits
	TPC / radio frame	0 bits
	SS / radio frame	0 bits
	Puncturing Limit	0.88

For physical channel parameters for SRB for CCCH + SRBs for DCCH see clause 6.11.5.4.5.1.2.

# 7 Generic setup procedures

## 7.1 Basic Generic Procedures

## 7.1.1 UE Test States for Basic Generic Procedures

This clause describes a set of procedures for use by test cases in TS 34.123-1. Describing these procedures in a generic manner allows their use in many test cases. By using these procedures, test case descriptions need not detail signalling that is not relevant to its purpose or understanding.

The procedures are based upon default values that are adapted to the most common usage. Test cases that require values different from the default will, when specifying the Basic Generic Procedure, also specify those parameters that are modified.

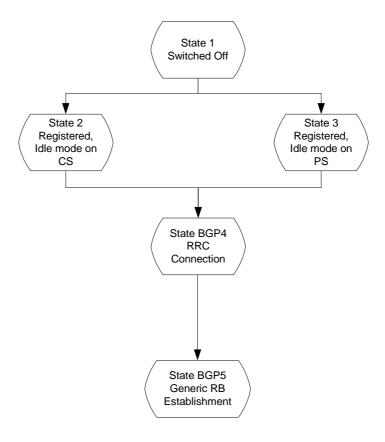


Figure 7.1.1: UE Test States for Basic Generic Procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.1.1.

Table 7.1.1: The UE states

		RRC	CC	MM	SM	GMM
State 1	Power OFF		null	detached	inactive	detached
State 2	CS Registered Idle Mode	idle	null	idle	inactive	detached
State 3	PS Registered Idle Mode	idle	null	detached	inactive	idle
State BGP4	RRC Connection	connected	null	as previous	inactive	as previous
State BGP5	Generic RB Establishment	connected	null	as previous	inactive	as previous

## 7.1.2 Mobile terminated establishment of Radio Resource Connection

#### 7.1.2.1 Initial conditions

System Simulator:

The system simulator will start from the default idle state. Parameters will the default parameters for a single cell, unless otherwise specified in the test case.

User Equipment:

Unless otherwise specified in the test case, the UE will be in the following state:

- Default test operating conditions.

The UE shall have followed the generic registration procedure for CS or PS operations, and will be in Idle Mode, Camped-on (State 2 or State 3).

#### 7.1.2.2 Definition of system information messages

The default system information messages are used.

#### 7.1.2.3 Procedure

- The SS sends a PAGING TYPE 1 message to the UE on the appropriate paging block, and with the IE "Paging record" containing the TMSI or P-TMSI of the UUT.
- The SS receives an RRC CONNECTION REQUEST message from the UE.
- On receipt of the RRC CONNECTION REQUEST the SS shall transmit a RRC CONNECTION SETUP message to the UE. The SS shall wait for the receipt of an RRC CONNECTION SETUP COMPLETE message from the UE.
- On receipt of an RRC CONNECTION SETUP COMPLETE message, the procedure is complete.

Step	Direction	Message	Comments
	UE SS		
1	<b>←</b>	SYSTEM INFORMATION (BCCH)	Default SI messages
2	<b>←</b>	PAGING TYPE 1 (PCCH)	Sent on appropriate cycle
3	$\rightarrow$	RRC CONNECTION REQUEST (CCCH)	RRC
4	<b>←</b>	RRC CONNECTION SETUP (CCCH)	RRC
5	$\rightarrow$	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC

#### 7.1.2.4 Specific message contents

#### 7.1.2.4.1 **PAGING TYPE 1**

This message is sent from the SS to the UE, using the TM RLC SAP, on the PCCH logical channel:

	Value/Remark			
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)
			TMSI (GSM-MAP)	As specified during Registration procedure
Other information el	ements			
BCCH modification in	fo	•		omit
				erwise, the Paging cause and

## 7.1.2.4.2 RRC CONNECTION REQUEST

This message is sent by the UE to the SS using the TM-RLC SAP. It is sent on the CCCH Logical channel.

Information Element	Value/Remark		
Message Type			RRC CONNECTION
			REQUEST
<b>UE</b> 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 number	er of AM entities	As declared in UE ICS
Establishment cause			As appropriate
Protocol error indicator			FALSE
>UE Specific Behaviour I	nformation 1 idle		This IE will not be checked by
			default behaviour, but in
			specific test case.
Measurement information	on elements		
Measured results on RAC	CH		Not checked

## 7.1.2.4.3 RRC CONNECTION SETUP

This message is sent from the SS to the UE using the UM-RLC SAP. The message is sent on the CCCH Logical channel.

The default RRC CONNECTION SETUP message for the transition to connected mode CELL\_DCH is used except for the IE fields specified below.

Information Element			Value/Remark
Message Type			RRC CONNECTION SETUP
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			
<b>TrCH Information Elements</b>			
Use default			
<b>TrCH Information Elements</b>			
Frequency info			As specified by default 1 cell environment
Use default			
	I		
Downlink radio resources			
Use default			

## 7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent by the UE to the SS using AM-RLC SAP. The message is sent on the DCCH Logical channel.

Information Element			Value/Remark
Message Type			RRC CONNECTION SETUP
			COMPLETE
UE Information Elements			
Hyper frame number	To		Not checked
UE radio access capability	Conformance test		R99
	PDCP capability	Support for lossless SRNS relocation	Not checked
		Supported algorithm types	Not checked
	RLC capability	Total RLC AM buffer size	Not checked
	i teo capaciity	Maximum number of AM	Not checked
		entities	
	Transport channel capability	Downlink	
	, ,	Max no of bits received	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of received transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
		Support for turbo decoding	Not checked
		Uplink	T
		Max no of bits transmitted	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of transmitted transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
	DE LUC	Support for turbo encoding	Not checked
	RF capability	UE power class	As declared for UE
	Physical channel capability	Tx/Rx frequency separation  Downlink	Not checked
		Maximum number of simultaneous CCTrCH	Not checked
		Max no DPCH/PDSCH codes	Not checked
-		Max no physical channel bits received	Not checked
		Support for SF 512	Not checked
		Support of PDSCH	Not checked
		Simultaneous reception of SCCPCH and DPCH	Not checked
		Max no of S-CCPCH RL	Not checked
		Uplink  Maximum number of DPDCH bits transmitted per 10 ms	Not checked
		Support of PCPCH	Not checked
		Toubbout of LOLOLI	I vot dilediced

Information Element			Value/Remark
	UE multi- mode/multi-RAT capability	Multi-RAT capability	
		Multi-mode capability	FDD or FDD/TDD
	Security capability	Ciphering algorithm capability	Not checked
		Integrity protection algorithm capability	Not checked
	LCS capability	Standalone location method(s) supported	Not checked
		UE based OTDOA supported	Not checked
		Network Assisted GPS support	Not checked
		GPS reference time capable	Not checked
		Support for IPDL	Not checked
	Measurement capability	Need for downlink compressed mode	Not checked
		FDD measurements DL	Not checked
		TDD measurements DL	Not checke
		GSM 900 DL	Not checked
		DCS 1800 DL	Not checked
		GSM 1900 DL	Not checked
		Multi-carrier measurement DL	Not checked
		Need for uplink compressed mode	Not checked
		FDD measurements UL	Not checked
		TDD measurements UL	Not checked
		GSM 900 UL	Not checked
		DCS 1800 UL	Not checked
		GSM 1900 UL	Not checked
		Multi-carrier measurement UL	Not checked
UE system specific capabil	lity		Not checked

# 7.1.3 Radio Bearer Setup Procedure

## 7.1.3.1 Initial conditions

The procedure specified in clause 7.1.2 will be run. This procedure starts from the successful completion of clause 7.1.2.

## 7.1.3.2 Definition of system information messages

The default system information messages are used.

## 7.1.3.3 Procedure

- The SS sends a RADIO BEARER SETUP message to the UE on the DCCH established by the RRC Connection Establishment procedure.
- The SS receives a RADIO BEARER SETUP COMPLETE message from the UE in RLC Acknowledged mode on the DCCH.

On receiption of the RADIO BEARER SETUP COMPLETE the procedure is complete.

Step	Direction	Message	Comments
	UE SS		
1	<b>←</b>	RADIO BEARER SETUP (DCCH)	RRC
2	$\rightarrow$	RADIO BEARER SETUP COMPLETE (DCCH)	RRC

## 7.1.3.4 Specific message contents

## 7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

Information Element		Value/Remark			
Message Type		RADIO BEARER SETUP			
UE Information Elements					
CN Information Elements	CN Information Elements				
RB Information Elements					
RAB information for setup	Default parameters for 12.2 kbps speech RAB + 3.4 kbps signalling radio bearer according to TS 34.108 clause 6.10.2.4.1.4 for FDD, clause 6.10.3.4.1.4 for 3.84 Mcps TDD and 6.11.5.4.1.4 for 1.28 Mcps TDD				

## 7.1.3.4.2 RADIO BEARER SETUP COMPLETE

The RADIO BEARER SETUP COMPLETE message is sent from the UE to the System Simulator, using AM-RLC on the DCCH logical channel.

The default RADIO BEARER SETUP COMPLETE message is used .

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP COMPLETE
Use default	

# 7.2 Generic setup procedures

## 7.2.1 UE Test States for Generic setup procedures

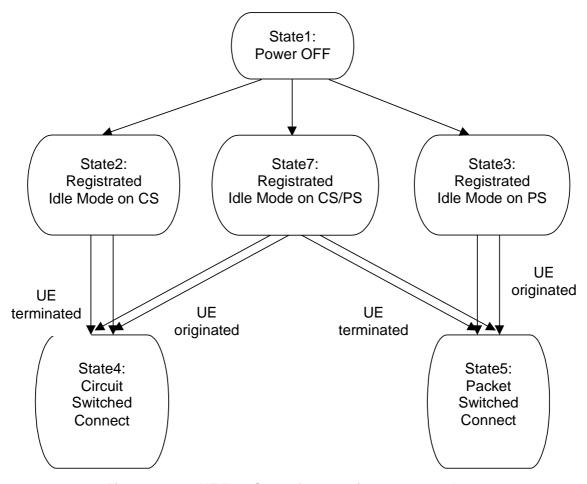


Figure 7.2.1.1: UE Test States for Generic setup procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.2.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.2.1.1.

Table 7.2.1.1: The UE states

		RRC	CC	MM	SM	GMM
State1	Power OFF		null	detached	inactive	detached
State2	Registered Idle Mode on CS	idle	null	idle	inactive	detached
State3	Registered Idle Mode on PS	idle	null	detached	inactive	idle
State4	Circuit Switched Connect	connected	active	connected	inactive	same as previous state
State5	Packet Switched Connect	connected	null	same as previous state	active	connected
State7	Registered Idle Mode on CS/PS	idle	null	idle	inactive	idle

# 7.2.2 Registration of UE

The default procedures required to achieve the changes of state between State 1, in clause 7.2.1, and States 2, 3 and 7 are illustrated in the following sections.

The choice of which procedure to use given a UE supporting packet services is influenced by the Network Mode of Operation being simulated by the SS and by the Operation Mode of the UE, as described in [32] clause 1.7.2.2. Table 7.2.2 shows the appropriate clause number for each combination of these two modes of operation.

Table 7.2.2: Registration Procedures for UEs Supporting Packet Services

Netwo	ork Mode	NMO I	NMO II
UE Mode	PS/CS	7.2.2.3	7.2.2.4
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

# 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 COMM		SECURITY MODE COMMAND	RRC
9	> SECURITY MODE COMPLETE		SECURITY MODE COMPLETE	RRC
10	< ATTACH ACCEPT		ATTACH ACCEPT	GMM
11	>		ATTACH COMPLETE	GMM
12	<	-	RRC CONNECTION RELEASE	RRC
13	>	>	RRC CONNECTION RELEASE COMPLETE	RRC

# 7.2.2.3.3a Procedure UE establish PS registration later the user decides to use the PS services

CS registration has been successfully completed and RRC connection is released, cee clause 7.2.2.1. Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
-	UE SS	1	
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
1a			The UE initiates an attach by
			MMI or by AT command.
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	ATTACH REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	<	ATTACH ACCEPT	GMM
11	>	ATTACH COMPLETE	GMM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

## 7.2.2.3.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

## 7.2.2.4 Registration on CS / PS non-combined environment

#### 7.2.2.4.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode II, default parameters.

User Equipment:

- The UE set to Operation mode A

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

## 7.2.2.4.2 Definition of system information messages

The default system information messages are used.

#### 7.2.2.4.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Registrations in the CS domain and in the PS domain shall execute independently. The separate registration procedures may occur sequentially or in parallel. If the procedures occur sequentially PS domain registration can be started immediately after power on or the UE can initiate PS registration by MMI or by AT command. If MMI or AT commands are used, registrations are done with two separate RRC connections. The procedures for CS and PS registration shall be as defined in clauses 7.2.2.1 and 7.2.2.2.

## 7.2.2.4.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer3 Testing".

## 7.2.3 Call setup

## 7.2.3.1 Generic call set up procedure for mobile terminating circuit switched calls

#### 7.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

## 7.2.3.1.2 Definition of system information messages

## 7.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	PAGING (PCCH)	Paging
3	>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	RRC CONNECTION SETUP (CCCH)	RRC
5	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>	PAGING RESPONSE	RR
7	<	AUTHENTICATION REQUEST	MM
8	>	AUTHENTICATION RESPONSE	MM
9	<	SECURITY MODE COMMAND	RRC
10	>	SECURITY MODE COMPLETE	RRC
11	<	SET UP	CC
12	>	CALL CONFIRMED	CC
13	<	RADIO BEARER SETUP	RRC RAB SETUP
14	>	RADIO BEARER SETUP COMPLETE	RRC
15	>	ALERTING	CC (this message is optional)
16	>	CONNECT	cc `
17	<	CONNECT ACKNOWLEDGE	cc

## 7.2.3.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

## 7.2.3.2 Generic call set-up procedure for mobile originating circuit switched calls

## 7.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

## 7.2.3.2.2 Definition of system information messages

## 7.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	CM SERVICE REQUEST	MM
6	<	AUTHENTICATION REQUEST	MM
7	>	AUTHENTICATION RESPONSE	MM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	>	SET UP	CC
11	<	CALL PROCEEDING	CC
12	<	RADIO BEARER SETUP	RRC RAB SETUP
13	>	RADIO BEARER SETUP COMPLETE	RRC
14	<	ALERTING	CC
15	<	CONNECT	CC
16	>	CONNECT ACKOWLEDGE	CC

## 7.2.3.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

## 7.2.4 Session setup

# 7.2.4.1 Generic session set up procedure for mobile terminating packet switched sessions

#### 7.2.4.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

## 7.2.4.1.2 Definition of system information messages

## 7.2.4.1.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		SYSTEM INFORMATION (BCCH)	Broadcast
2	<		PAGING TYPE1 (PCCH)	Paging
3		>	RRC CONNECTION REQUEST (CCCH)	RRC
4	<		RRC CONNECTION SETUP (CCCH)	RRC
5		>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	>		SERVICE REQUEST	GMM
7	<		AUTHENTICATION AND CIPHERING REQUEST	GMM
8	>		AUTHENTICATION AND CIPHERING RESPONSE	GMM
9	<		SECURITY MODE COMMAND	RRC
10		>	SECURITY MODE COMPLETE	RRC
11	<		REQUEST PDP CONTEXT ACTIVATION	SM
12	>		ACTIVATE PDP CONTEXT REQUEST	SM
13	<		RADIO BEARER SETUP	RRC RAB SETUP
14		>	RADIO BEARER SETUP COMPLETE	RRC
15	<		ACTIVATE PDP CONTEXT ACCEPT	SM

## 7.2.4.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.2.4.2 Generic session set up procedure for mobile originating packet switched sessions

#### 7.2.4.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

## 7.2.4.2.2 Definition of system information messages

#### 7.2.4.2.3 Procedure

The Session Set-up procedure shall be performed under Ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	SERVICE REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	> SECURITY MODE COMPLETE		RRC
10	> ACTIVATE PDP CONTEXT REQUEST		SM
11	<	RADIO BEARER SETUP	RRC RAB SETUP
12	>	RADIO BEARER SETUP COMPLETE	RRC
13	<	ACTIVATE PDP CONTEXT ACCEPT	SM

## 7.2.4.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

# 7.3 Test procedures for RF test

## 7.3.1 UE Test States for RF testing

In this clause, the states of the UE for the test are defined.

		RRC	CC	MM	SM	GMM
State1	Power OFF		null	detached	inactive	detached
State2	CS Registered Idle Mode	idle	null	idle	inactive	detached
State3	PS Registered Idle Mode	idle	null	detached	inactive	idle
State4	Test Mode	connected	null	detached	inactive	detached

# 7.3.2 Test procedure for TX, RX and Performance Requirement (without handover)

## 7.3.2.1 Initial conditions

System Simulator

- 1cell, default parameters.

User Equipment

The UE shall 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

## 7.3.2.2 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
189	<	<	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

## 7.3.3.2a Procedure

## For UE supporting CS

Step	Direction		Message	Comments
	UE	SS		
1	<	<b>:</b>	SYSTEM INFORMATION (BCCH)	Broadcast
2	<	<b>:</b>	PAGING TYPE1 (PCCH)	Paging (CS domain, TMSI)
3	-	->	RRC CONNECTION REQUEST (CCCH)	RRC
4	<	<b>:</b>	RRC CONNECTION SETUP (CCCH)	RRC
5	-	->	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
6	-	->	PAGING RESPONSE	RR
7	<	<	AUTHENTICATION REQUEST	MM
8	-	->	AUTHENTICATION RESPONSE	MM
9	<	<	SECURITY MODE COMMAND	RRC
10	-	->	SECURITY MODE COMPLETE	RRC
11	<	<	ACTIVATE RB TEST MODE	TC
12	-	->	ACTIVATE RB TEST MODE COMPLETE	TC
13	<	<	RADIO BEARER SETUP	RRC
				- RAB SETUP using Reference
				Radio Bearer Configuration
				- RRC state indicator is set to
				"CELL_FACH"
14	-	->	RADIO BEARER SETUP COMPLETE	RRC
15	<	<b>:</b>	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

**FFS** 

## 7.3.5 Test procedure for Measurement Performance Requirement

**FFS** 

# 7.4 Common generic procedures for AS testing

# 7.4.1 UE RRC Test States for common procedures

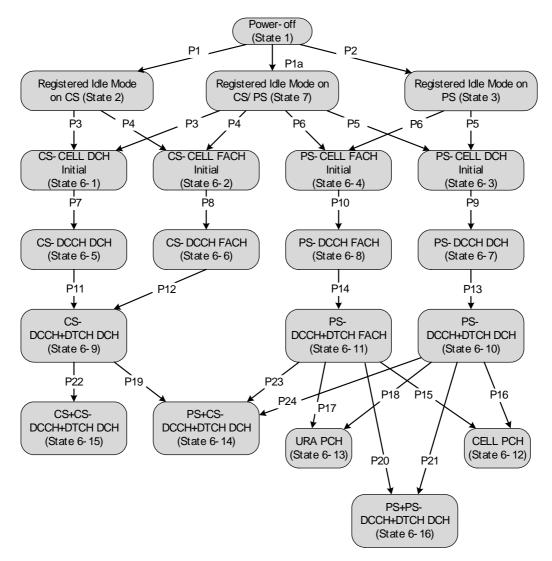


Figure 7.4.1.1: UE RRC test initial states and common procedures

For UE to set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.4.1.1, the operating states for various protocols in the UE are given in table 7.4.1.1.

It is noted that figure 7.4.1.1 should not be construed as a formal state transition diagram, in any manner. The intention here is to define the starting state of UE following the execution of the procedures indicated above.

Table 7.4.1.1: The UE states

		RRC	CC	MM	SM	GMM
State 1	Power OFF		Null	Detached	Inactive	Detached
State 2	Registered Idle Mode on CS	Idle	Null	Idle	Inactive	Detached
State 3	Registered Idle Mode on PS	Idle	Null	Detached	Inactive	Idle
State 7	Registered Idle Mode on CS/PS	Idle	Null	Idle	Inactive	Idle
State BGP6-1	CS-CELL_DCH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-2	CS-CELL_FACH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-3	PS-CELL_DCH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-4	PS-CELL_FACH_Initial	Connected	Null	As previous	Inactive	As previous
State BGP6-5	CS-DCCH_DCH	Connected (CELL_DCH)	Null	As previous	Inactive	As previous
State BGP6-6	CS-DCCH_FACH	Connected (CELL_FACH)	Null	As previous	Inactive	As previous
State BGP6-7	PS-DCCH_DCH	Connected (CELL_DCH)	Null	As previous	Active pending	As previous
State BGP6-8	PS-DCCH_FACH	Connected (CELL_FACH)	Null	As previous	Active pending	As previous
State BGP6-9	CS-DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Inactive	As previous
State BGP6-10	PS-DCCH+DTCH_DCH	Connected (CELL_DCH)	Null	As previous	Active	As previous
State BGP6-11	PS-DCCH+DTCH_FACH	Connected (CELL_FACH)	Null	As previous	Active	As previous
State BGP6-12	CELL_PCH	Connected (CELL_PCH)	Null	As previous	Inactive	As previous
State BGP6-13	URA_PCH	Connected (URA_PCH)	Null	As previous	Inactive	As previous
State BGP6-14	PS+CS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Active	As previous
State BGP6-15	CS+CS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Connected	As previous	Inactive	As previous
State BGP6-16	PS+PS- DCCH+DTCH_DCH	Connected (CELL_DCH)	Null	As previous	Active	As previous

State 1, state 2, state 3, P1, P2 and 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		
Ī	1	>	^	RRC CONNECTION REQUEST (CCCH)	RRC
	2	<		RRC CONNECTION SETUP (CCCH)	RRC
	3	>	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
	4	>	>	SERVICE REQUEST	GMM

## 7.4.2.2.2.4 Specific message contents

To execute procedure P5, all specific message contents shall be referred to clause 9 of TS 34.108.

To execute procedure P6, all specific message contents with the exception of step 2 shall be referred to clause 9 of TS 34.108. For step 2, the message of the same type titled "Transition to CELL\_FACH" in TS 34.108 clause 9 is used.

## 7.4.2.3 NAS call set up procedure for circuit switched calls (procedure P7 and P8)

## 7.4.2.3.1 Mobile terminating call

#### 7.4.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1 or state 6-2.
- The Test USIM shall be inserted.

#### 7.4.2.3.1.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.3.1.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	AUTHENTICATION REQUEST	MM
2	>	AUTHENTICATION RESPONSE	MM
3	<	SECURITY MODE COMMAND	RRC
4	>	SECURITY MODE COMPLETE	RRC
5	<	SET UP	CC
6	>	CALL CONFIRMED	cc

#### 7.4.2.3.1.4 Specific message contents

All RRC specific message contents shall be referred to clause 9 of TS 34.108.

## 7.4.2.3.2 Mobile originating calls

#### 7.4.2.3.2.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be in state 6-1or state 6-2.
- The Test USIM shall be inserted.

## 7.4.2.3.2.2 Definition of system information messages

The default system information messages are used as specified in clause 6.1 of TS 34.108.

#### 7.4.2.3.2.3 Procedure

The Call Set-up procedure shall be performed under Ideal radio conditions as defined in clause 5.2 and 6.1 of TS 34.108. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<	<	AUTHENTICATION REQUEST	MM
2	>		AUTHENTICATION RESPONSE	MM
3	<		SECURITY MODE COMMAND	RRC
4	-	->	SECURITY MODE COMPLETE	RRC
5	>		SET UP	CC
6	<	<	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	<		ALERTING	CC
4	<		CONNECT	CC
5	>		CONNECT ACKOWLEDGE	CC

#### 7.4.2.5.2.4 Specific message contents

To execute procedure P11, use the message titled "CS speech" (defined in clause 9 of TS 34.108) for the message in step 1. To execute procedure 12, use the message "The others of speech in CS" (defined in clause 9 of TS 34.108) for the message in step 1.

# 7.4.2.6 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.

Step	Direction		Message	Comments
	UE	SS		
1	<	<	RADIO BEARER SETUP	RRC RAB SETUP
2	-	->	RADIO BEARER SETUP COMPLETE	RRC
3	<	<	ACTIVATE PDP CONTEXT ACCEPT	SM

#### 7.4.2.6.2.4 Specific message contents

For step 1, the messages in clause 9 of TS 34.108 are used. To execute procedure P13, use the message titled "Packet to CELL\_DCH from CELL\_DCH in PS". To execute procedure 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	Dire	ction	Message	Comments
	UE	SS		
1	<	<	PHYSICAL CHANNEL RECONFIGURATION	RRC
2	-	->	PHYSICAL CHANNEL RECONFIGURATION COMPLETE	RRC

#### 7.4.2.7.2.4 Specific message contents

Contents of PHYSICAL CHANNEL RECONFIGURATION message: DCCH-AM (Step 1)

Information Element	Value/remark
Message Type	LIDA DOLL
RRC State Indicator	URA_PCH

# 7.4.2.8 Radio access bearer establishment procedure with packet switched sessions for transitions to Multi Call state (procedure P19, 20 and 21)

#### 7.4.2.8.1 Transition to PS+CS-DCCH+DTCH DCH (procedure P19)

#### 7.4.2.8.1.1 Mobile terminating session

#### 7.4.2.8.1.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall 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		RRC
6	> SECURITY MODE COMPLETE RRC		RRC
7	< SET UP CC		CC
8	> CALL CONFIRMED CC		CC
9	<   RADIO BEARER SETUP   RRC RAB SETUP		RRC RAB SETUP
10	> RADIO BEARER SETUP COMPLETE RRC		RRC
11	> ALERTING CC (this messa		CC (this message is optional)
12	> CONNECT CC		CC
13	< CONNECT ACKNOWLEDGE CC		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	CC

7.4.2.9.2.2.4 Specific message contents

**FFS** 

# 8 Test USIM Parameters

# 8.1 Introduction

This clause defines default parameters for programming the elementary files of the test USIM. The requirements of this clause do not apply to the USIM/ME tests of 3GPP TS31.120 and 3GPP TS31.121.

#### 8.1.1 Definitions

"Test USIM card":

A USIM card supporting the test algorithm for authentication, programmed with the parameters defined in this clause. The electrical, mechanical and environmental requirements of the test USIM card are specified in TS 31.101 and TS 31.102.

"Test USIM":

Either a test USIM card or the USIM simulator programmed with the parameters defined in this clause.

# 8.1.2 Definition of the test algorithm for authentication

In order to be able to easily test the UMTS authentication and key agreement procedure as specified in TS 33.102 [24] and TS 33.105 [26] along the whole system, the availability of a test algorithm for generation of authentication vector based on quintets is needed (in GSM triplets was used). Additionally, calculation of the parameters for resynchronisation requests is needed. The definition of the test algorithm are the functions f1, f2, f3, f4, f5 and the corresponding functions for re-synchronization are f1\* and f5\*.

For test USIM intended to be used for inter-RAT test cases then the test USIM shall support the conversion function c3 according to TS 33.102 [24] clause 6.8.1.2 to derive the GSM ciphering key Kc from the UMTS cipher/integrity keys CK and IK.

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS. The test algorithm may also, for test purposes, be implemented in AUC.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

## 8.1.2.1 Authentication and key derivation in the test USIM and SS

The following steps describe sequence of operations for the functions f1, f2, f3, f4 and f5 to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES, CK, IK, Kc and AK respectively, to be used in the authentication and key agreement procedure.

#### Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

```
XDOUT[bits 0,1, \dots 126,127] = K [bits 0,1, \dots 126,127] XOR RAND[bits 0,1, \dots 126,127]
```

#### Step 2:

**RES** (test USIM), **XRES** (SS), **CK**, **IK** and **AK** are extracted from **XDOUT** this way:

```
RES[bits 0,1, ..., n-1, n] = f2(XDOUT,n) = XDOUT[bits 0,1, ..., n-1, n] (with 30 < n < 128)
```

NOTE: Suggested length for RES is 128 bits (i.e. n = 127). In SS and AUC, the XRES calculation is identical to RES.

CK[bits 0,1,...126,127] = f3(XDOUT) = XDOUT[bits 8,9,...126,127,0,1,...6,7]

IK[bits 0,1,...126,127] = f4(XDOUT) = XDOUT[bits 16,17,...126,127,0,1,...14,15]

AK[bits 0,1,...46,47] = f4(XDOUT) = XDOUT[bits 24,25,...70,71]

For test USIM intended for inter-RAT testing the GSM ciphering key Kc shall be derived from the UMTS cipher/integrity keys:

Kc[bits 0,1,...62,63] = c3(CK,IK), see TS 33.102 clause 6.8.1.2

#### Step 3:

Concatenate SQN with AMF to obtain CDOUT like this:

```
CDOUT[bits 0,1,...62,63] = SQN[bits 0,1,...46,47] \parallel AMF[bits 0,1,...14,15]
```

NOTE: For test USIM the  $\mathbf{SQN} = \mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}$ [bits 0,1,...46,47] =  $\mathbf{AUTN}$ [bits 0,1,...46,47] XOR  $\mathbf{AK}$ [bits 0,1,...46,47] where AUTN is the received authentication token.

#### Step 4:

XMAC (test USIM) and MAC (SS) are calculated from XDOUT and CDOUT this way:

```
XMAC[bits 0,1, \dots .62, 63] = \mathbf{f1}(\mathbf{XDOUT}, \mathbf{CDOUT}) = \mathbf{XDOUT}[bits 0,1, \dots .62, 63] XOR \mathbf{CDOUT}[bits 0,1, \dots .62, 63]
```

NOTE: In SS and AUC, the MAC calculation is identical to XMAC

#### Step 5:

The SS calculates the authentication token **AUTN**:

**AUTN**[bits 0,1,...126,127] = **SQN**  $\oplus$  **AK**[bits 0,1,...46,47] || **AMF**[bits 0,1,...14,15] || **MAC**[bits 0,1,...62, 63] Where **SQN**  $\oplus$  **AK**[bits 0,1,...46,47] = **SQN**[bits 0,1,...46,47] XOR **AK**[bits 0,1,...46,47]

## 8.1.2.2 Generation of re-synchronisation parameters in the USIM

For SS to be able to initiate an authentication re-synchronisation procedure a specific AMF value has been defined.

```
AMF<sub>RESYNCH</sub> = AMF[bits 0,1,..14,15] = "1111 1111 1111 1111"
```

When the test USIM receives an authentication token (AUTN) having the value of AMF field equal to the AMF<sub>RESYNCH</sub> value then the test USIM shall initiate the re-synchronisation procedure.

When the test USIM starts the re-synchronisation procedure, the MAC-S and AK have to be calculated using the functions f1\* and f5\*, which in the test algorithm are identical to f1 and f5, respectively.

#### Step 1:

XOR to the challenge **RAND**, a predefined number **K** (in which at least one bit is not zero, see 8.2), having the same bit length (128 bits) as **RAND**.

The result **XDOUT** of this is:

```
XDOUT[bits 0,1,...126,127] = K[bits 0,1,...126,127] XOR RAND[bits 0,1,...126,127]
```

#### Step 2:

**AK** is extracted from **XDOUT** this way:

$$AK[bits 0,1,...46,47] = f5*(XDOUT) = XDOUT[bits 24,25,...70,71]$$

#### Step 3:

Concatenate SQN<sub>MS</sub> with AMF\* to obtain CDOUT like this:

```
CDOUT[bits 0,1,...62,63] = SQN<sub>MS</sub>[bits 0,1,...46,47] \parallel AMF*[bits 0,1,...14,15]
```

Where AMF\* assumes a dummy value of all zeros

NOTE: For test USIM the  $\mathbf{SQN_{MS}} = \mathbf{SQN_{SS}}[\text{bits } 0,1,\dots46,47] = \mathbf{AUTN}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47] \text{ where AUTN is the received authentication token.}$ 

For SS and AUC the  $\mathbf{SQN_{MS}} = \mathbf{AUTS}[\text{bits } 0,1,\dots46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0,1,\dots46,47] \text{ where AUTS is the received re-synchronisation parameter.}$ 

#### Step 4:

MAC-S is calculated from XDOUT and CDOUT this way:

```
MAC-S[bits 0,1,...62,63] = f1*(XDOUT, CDOUT) = XDOUT[bits 0,1...62,63] XOR CDOUT[bits 0,1,...62,63]
```

NOTE: In SS and AUC, the XMAC-S calculation is identical to MAC-S.

#### Step 5:

The test USIM calculates the re-synchronisation parameter **AUTS**:

```
\mathbf{AUTS}[\mathsf{bits}\ 0,1,...110,111] \ \ = \ \ \mathbf{SQN_{MS}} \oplus \mathbf{AK}[\mathsf{bits}\ 0,1,...46,47] \ \| \ \mathbf{MAC-S}[\mathsf{bits}\ 0,1,...62,\ 63]
```

Where 
$$\mathbf{SQN_{MS}} \oplus \mathbf{AK}$$
[bits 0,1,...46,47] =  $\mathbf{SQN_{MS}}$  [bits 0,1,...46,47] XOR  $\mathbf{AK}$ [bits 0,1,...46,47]

# 8.1.2.3 Using the authentication test algorithm for UE conformance testing

#### 8.1.2.3.1 Authentication accept case

The authentication accept case is illustrated in figure 8.1.2.3.1 and 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the AMF<sub>RESYNCH</sub> value.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter the test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to 4). The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

The test USIM checks that XMAC = MAC and then return the RES, CK and IK parameters to the ME.

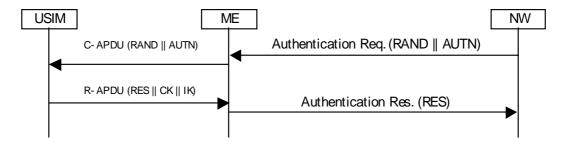


Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)

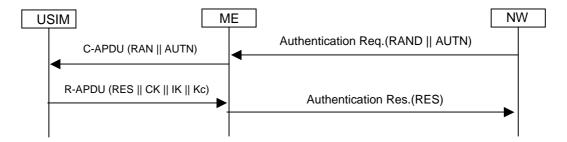


Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)

#### 8.1.2.3.2 MAC failure case

The MAC failure case is illustrated in figure 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the AMF<sub>RESYNCH</sub> value and a MAC value different from what is calculated in clause 8.1.2.1 step 4.

The SS sends an authentication request, including RAND and AUTN parameters, to the ME/USIM.

Based on the received RAND parameter The test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to 4).

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the calculated XMAC value is different from the MAC value received in AUTN then the USIM notifies the ME of the MAC failure and the ME sends an AUTENTICATION FAILURE message to the SS (cause "MAC failure").

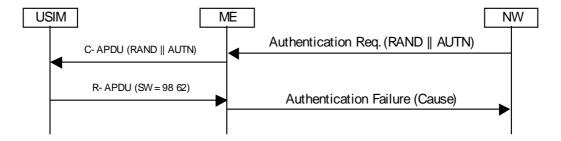


Figure 8.1.2.3.2: MAC failure cases

#### 8.1.2.3.3 SQN failure case

The SQN failure case is illustrated in figure 8.1.2.3.3.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value equal to AMF<sub>RESYNCH</sub>.

The SS sends an authentication request, including RAND and AUTN parameters, to the UE/USIM.

The test USIM extracts the  $SQN_{MS} = SQN_{SS}$ , AMF and MAC parameters from the received authentication token AUTN.

When the test USIM identifies that the AMF field is equal to the AMF $_{RESYNCH}$  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.

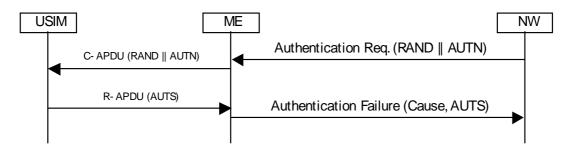


Figure 8.1.2.3.3: SQN failure case

# 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 EFDIR

# 8.3.1.2 EF<sub>ICCID</sub> (ICC Identity)

The programming of this EF is a test house option.

#### 8.3.1.3 EF<sub>PI</sub> (Preferred Languages)

The programming of this EF follows default parameter written in TS31.102 Annex E.

#### 8.3.1.4 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF is a test house option.

# 8.3.2 Contents of files at the USIM ADF (Application DF) level

# 8.3.2.1 EF<sub>LI</sub> (Language Indication)

The programming of this EF follows default parameter written in TS31.102 Annex E.

# 8.3.2.2 EF<sub>IMSI</sub> (IMSI)

The IMSI value will be chosen by the test house. The IMSI used by the SS will align this value.

File size: 9 bytes

Default values: Byte 1 (DEC): 8

Bytes 2-9 (HEX):09 10 10 \*\* \*\* \*\* \*\*

<sup>&</sup>quot;\*" indicates any number between 0 and 9 subject to the restriction that IMSI mod 1000 (i.e. bytes 7, 8 and 9) lies in one of the following ranges:

063-125, 189-251, 315-377, 441-503, 567-629, 693-755, 819-881 or 945-999

NOTE: This ensures that the UE can listen to the second CCCH when more than one basic physical channel is configured for the CCCH. This is necessary for the test of "paging re-organization".

## 8.3.2.3 EF<sub>Kevs</sub> (Ciphering and Integrity Keys)

The programming of this EF follows default parameter written in TS31.102 Annex E.

# 8.3.2.4 EF<sub>KevsPS</sub> (Ciphering and Integrity Keys for Packet Switched domain)

The programming of this EF follows default parameter written in TS31.102 Annex E.

## 8.3.2.5 EF<sub>PLMNwAcT</sub> (User controlled PLMN selector with Access Technology)

File size: 5n bytes

Default values (HEX): Bytes 1-3: 32 F4 10 (MCC, MNC) - Translates to 234, 01

Bytes 4-5: 80 00 (Access Technology) – Translates to UTRAN

Bytes 6-8: 32 F4 20 (MCC, MNC)

Bytes 9-10: 80 00 (Access Technology)

Bytes 11-13: 32 F4 30 (MCC, MNC)

••••

••••

....

Bytes(5n-4) - (5n-2): 32 F4 43 (MCC, MNC)

Bytes (5n-1) - 5n: 80 00 (Access Technology)

PLMNs are shown coded above since this is the largest number required for a test. It is necessary to take this into account since the USIM cards must be dimensioned to cope with this number of records.

# 8.3.2.6 EF<sub>HPLMN</sub> (HPLMN search period)

File size: 1 byte

Default value (HEX): 00 (no HPLMN search attempts)

# 8.3.2.7 EF<sub>ACMmax</sub> (ACM maximum value)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not valid".

# 8.3.2.8 EF<sub>UST</sub> (USIM Service Table)

Services will be allocated and activated as follows:

Services		Activated
Service n°1 :	Local Phone Book	Option
Service n°2 :	Fixed Dialling Numbers (FDN)	Option
Service n°3 :	Extension 2	Option
Service n°4 :	Service Dialling Numbers (SDN)	Option
Service n°5 :	Extension3	Option
Service n°6 :	Barred Dialling Numbers (BDN)	Option
Service n°7 :	Extension4	Option
Service n°8 :	Outgoing Call Information (OCI and OCT)	Option
Service n°9 :	Incoming Call Information (ICI and ICT)	Option
Service n°10:	Short Message Storage (SMS)	Yes
Service n°11:	Short Message Status Reports (SMSR)	Option
Service n°12:	Short Message Service Parameters (SMSP)	Yes
Service n°13:	Advice of Charge (AoC)	Yes
Service n°14:	Capability Configuration Parameters (CCP)	Yes
Service n°15:	Cell Broadcast Message Identifier	Yes
Service n°16:	Cell Broadcast Message Identifier Ranges	Yes
Service n°17:	Group Identifier Level 1	Option
Service n°18:	Group Identifier Level 2	Option
Service n°19:	Service Provider Name	Option
Service n°20:	User controlled PLMN selector with Access Technology	Yes
Service n°21:	MSISDN	Option
Service n°22:	Image (IMG)	Option
Service n°23:	Not used (reserved for SoLSA)	No
Service n°24:	Enhanced Multi-Level Precedence and Pre-emption Service	Option
Service n°25:	Automatic Answer for Emlpp	Option
Service n°26:	RFU	No
Service n°27:	GSM Access	Yes
Service n°28:	Data download via SMS-PP	Option
Service n°29:	Data download via SMS-CB	Option
Service n°30:	Call Control by USIM	Option
Service n°31:	MO-SMS Control by USIM	Option
Service n°32:	RUN AT COMMAND command	Option
Service n°33:	Packet Switched Domain	Yes
Service n°34:	Enabled Services Table	Yes
Service n°35:	APN Control List (ACL)	Option
Service n°36:	Depersonalisation Control Keys	Option
Service n°37:	Co-operative Network List	Option
Service n°38:	GSM security context	Yes
Service n°39:	CPBCCH Information	Yes
Service n°40:	Investigation Scan	Yes
Service n°41:	MExE	Option
Service n°42	Operator controlled PLMN selector with Access Technology	Yes
Service n°43	HPLMN selector with Access Technology	Yes

# 8.3.2.9 EF<sub>ACM</sub> (Accumulated Call Meter)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not yet implemented".

# 8.3.2.10 EF<sub>GID1</sub> (Group Identifier Level 1)

The programming of this EF is a test house option.

# 8.3.2.11 EF<sub>GID2</sub> (Group Identifier Level 2)

The programming of this EF is a test house option.

## 8.3.2.12 EF<sub>SPN</sub> (Service Provider Name)

The programming of this EF is a test house option.

## 8.3.2.13 EF<sub>PUCT</sub> (Price per Unit and Currency Table)

The programming of this EF follows default parameter written in TS31.102 Annex E.

## 8.3.2.14 EF<sub>CBMI</sub> (Cell Broadcast Message identifier selection)

The programming of this EF is a test house option.

The file size is 2n bytes, where n is the number of Cell broadcast message identifier records - each record defining a type of Cell Broadcast message which may be accessed by the UE. Care should be taken when dimensioning the USIM to take into account the number of Cell Broadcast message identifier records required.

## 8.3.2.15 EF<sub>ACC</sub> (Access Control Class)

The EFACC can be selected by a test house in two types.

Type A;

File size: 2 Bytes

Default values (BIN): Byte 1: 000000\*\*

Byte 2: \*\*\*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type B;

Default values (BIN): Byte 1: 111110\*\*

Byte 2: \*\*\*\*\*\*

The test house may set any single bit shown by "\*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

# 8.3.2.16 EF<sub>FPI MN</sub> (Forbidden PLMNs)

The programming of this EF follows default parameter written in TS31.102 Annex E.

# 8.3.2.17 EF<sub>LOCI</sub> (Location Information)

File size: 11 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (TMSI)

Bytes 5-9 (HEX): 42 F6 18 FF FE (LAI)

Byte 10 (HEX): FF (RFU)

Byte 11 (BIN): 00000001 (Location Update Status = "not updated")

Bytes 5-9: LAI-MCC = 246 (bytes 5-6) and LAI-MNC = 81 (byte 7) are frequently used. The LAC (bytes 8-9) is set to "FF FE" since this, in conjunction with byte 11 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

## 8.3.2.18 EF<sub>AD</sub> (Administrative Data)

File size: 4 bytes

Default values Byte 1: 10000000 - (type approval operations)

Byte 2: 000000000

Byte 3: 000000000

Byte 4: 00000010

#### 8.3.2.19 Void

# 8.3.2.20 EF<sub>CBMID</sub> (Cell Broadcast Message Identifier for Data Download)

The programming of this EF follows default parameter written in TS31.102 Annex E.

#### 8.3.2.21 EF<sub>FCC</sub> (Emergency Call Codes)

The programming of this EF is a test house option.

#### 8.3.2.22 EF<sub>CBMIR</sub> (Cell Broadcast Message Identifier Range selection)

The programming of this EF follows default parameter written in TS31.102 Annex E.

#### 8.3.2.23 EF<sub>PSLOCI</sub> (Packet Switched location information)

File size: 14 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (P-TMSI)

Bytes 5-7 (HEX): FF FF (P-TMSI signature value)

Bytes 8-13 (HEX): 42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): 00000001 (Routing Area update status = "not updated")

Bytes 8-13: RAI-MCC = 246 (bytes 8-9) and RAI-MNC = 81 (byte 10) are frequently used. The LAC (bytes 11-12) is set to "FF FE" since this, in conjunction with byte 14 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. P-TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

# 8.3.2.24 EF<sub>FDN</sub> (Fixed Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

# 8.3.2.25 $EF_{SMS}$ (Short messages)

8.3.2.26 EF<sub>MSISDN</sub> (MSISDN)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.27 EF<sub>SMSP</sub> (Short message service parameters)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.28 EF<sub>SMSS</sub> (SMS status)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.29 EF<sub>SDN</sub> (Service Dialling Numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.30 EF<sub>EXT2</sub> (Extension2)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.31  $EF_{EXT3}$  (Extension3)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.32 EF<sub>SMSR</sub> (Short message status reports)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.33 EF<sub>ICI</sub> (Incoming Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.34 EF<sub>OCI</sub> (Outgoing Call Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.35 EF<sub>ICT</sub> (Incoming Call Timer)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.36 EF<sub>OCT</sub> (Outgoing Call Timer)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.37  $EF_{EXT5}$  (Extension5)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.38 EF<sub>CCP2</sub> (Capability Configuration Parameters 2)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.2.39 EF<sub>eMLPP</sub> (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

# 8.3.2.40 EF<sub>AAeM</sub> (Automatic Answer for eMLPP Service)

The programming of this EF follows default parameter written in TS 31.102 annex E.

# 8.3.2.41 EF<sub>GMSI</sub> (Group Identity)

This clause is expected to be defined in the release 2000 version of the present document.

## 8.3.2.42 EF<sub>Hiddenkev</sub> (Key for hidden phone book entries)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.2.43 Void

# 8.3.2.44 EF<sub>BDN</sub> (Barred dialling numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

## 8.3.2.45 $EF_{EXT4}$ (Extension 4)

The programming of this EF follows default parameter written in TS 31.102 annex E.

# 8.3.2.46 EF<sub>CMI</sub> (Comparison method information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

## 8.3.2.47 EF<sub>EST</sub> (Enabled service table)

The programming of this EF is a test house option.

# 8.3.2.48 EF<sub>ACI</sub> (Access point name control list)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.2.49 EF<sub>DCK</sub> (Depersonalisation control keys)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.2.50 EF<sub>CNL</sub> (Co-operative network list)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.2.51 EF<sub>START-HEN</sub> (Initialisation values for Hyperframe number)

The programming of this EF follows default parameter written in TS 31.102 annex E.

## 8.3.2.52 EF<sub>THRESHOLD</sub> (Maximum value of START)

The programming of this EF is a test house option.

# 8.3.2.53 EF<sub>OPLMNsel</sub> (OPLMN selector)

# 8.3.2.54 EF<sub>PHPLMNAT</sub> (Preferred HPLMN Access Technology)

The programming of this EF follows default parameter written in TS 31.102 annex E.

## 8.3.2.55 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF is a test house option.

## 8.3.2.56 EF<sub>RPLMNACT</sub> (RPLMN Last used Access Technology)

The programming of this EF follows default parameter written in TS 31.102 annex E.

## 8.3.2.57 EF<sub>NETPAR</sub> (Network Parameters)

The programming of this EF follows default parameter written in TS 31.102 annex E.

# 8.3.3 Contents of DFs at the USIM ADF (Application DF) level

#### 8.3.3.1 Contents of files at the USIM SoLSA level

#### 8.3.3.1.1 EF<sub>SAI</sub> (SoLSA Access Indicator)

This clause is expected to be defined in the release 2000 version of the present document.

## 8.3.3.1.2 EF<sub>SLL</sub> (SoLSA LSA List)

This clause is expected to be defined in the release 2000 version of the present document.

# 8.3.3.1.3 LSA Descriptor files

This clause is expected to be defined in the release 2000 version of the present document.

#### 8.3.3.1.4 Contents of files at the MExE level

#### 8.3.3.1.4.1 EF<sub>MExE-ST</sub> (MExE Service table)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.1.4.2 EF<sub>ORPK</sub> (Operator Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.1.4.3 EF<sub>ARPK</sub> (Administrator Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.1.4.4 EF<sub>TPRPK</sub> (Third Party Root Public Key)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.1.4.5 EF<sub>TKCDF</sub> (Trusted Key/Certificates Data Files)

#### 8.3.3.2 Contents of files at the DF PHONEBOOK level

## 8.3.3.2.1 EF<sub>PBR</sub> (Phone Book Reference file)

The programming of this EF is a test house option.

#### 8.3.3.2.2 EF<sub>IAP</sub> (Index Administration Phone book)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.2.3 EF<sub>ADN</sub> (Abbreviated dialling numbers)

The programming of this EF follows default parameter written in TS 31.102 annex E.

## 8.3.3.2.4 EF<sub>EXT1</sub> (Extension1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

# 8.3.3.2.5 EF<sub>PBC</sub> (Phone Book Control)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.2.6 EF<sub>GRP</sub> (Grouping file)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.2.7 EF<sub>AAS</sub> (Additional number Alpha String)

The programming of this EF follows default parameter written in TS 31.102 annex E.

# 8.3.3.2.8 EF<sub>GAS</sub> (Grouping information Alpha String)

The programming of this EF follows default parameter written in TS 31.102 annex E.

## 8.3.3.2.9 EF<sub>ANR</sub> (Additional Number)

The programming of this EF follows default parameter written in TS 31.102 annex E.

# 8.3.3.2.10 EF<sub>SNE</sub> (Second Name Entry)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.2.11 EF<sub>CCP1</sub> (Capability Configuration Parameters 1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.2.12 Phone Book Synchronisation

#### 8.3.3.2.12.1 EF<sub>UID</sub> (Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.3.2.12.2 EF<sub>PSC</sub> (Phone book Synchronisation Counter)

8.3.3.2.12.3 EF<sub>CC</sub> (Change Counter)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.12.4 EF<sub>PUID</sub> (Previous Unique Identifier)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.2.13 EF<sub>EMAIL</sub> (e-mail address)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.3 Contents of files at the DF GSM level (Files required for GSM Access)

8.3.3.3.1  $EF_{Kc}$  (GSM Ciphering key Kc)

File size: 9 Bytes

Default values (HEX): Bytes 1-8: Align with Kc used by SS

Byte 9: 07

Byte 9 is set to 07 to indicate that there is no key available at the start of a test.

The bytes within this elementary file may be updated by the UE as a result of a successful authentication attempt.

8.3.3.3.2 EF<sub>KcGPRS</sub> (GPRS Ciphering key KcGPRS)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.3.3 Void

8.3.3.3.4 EF<sub>CPBCCH</sub> (CPBCCH Information)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.3.5 EF<sub>InvScan</sub> (Investigation Scan)

The programming of this EF follows default parameter.

8.3.4 Contents of EFs at the TELECOM level

8.3.4.1 EF<sub>ADN</sub> (Abbreviated dialling numbers)

The programming of this EF is a test house option. It should be noted that sufficient space should be provided on the USIM card for 101 records.

8.3.4.2  $EF_{EXT1}$  (Extension1)

The programming of this EF follows default parameter written in TS 31.102 annex E.

8.3.4.3 EF<sub>ECCP</sub> (Extended Capability Configuration Parameter)

The programming of this EF is a test house option.

8.3.4.4 EF<sub>SUME</sub> (SetUpMenu Elements)

The programming of this EF is a test house option.

# 8.3.4.5 EF<sub>ARR</sub> (Access rule reference)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.5 Contents of DFs at the TELECOM level

#### 8.3.5.1 Contents of files at the DF<sub>GRAPHICS</sub> level

#### 8.3.5.1.1 EF<sub>IMG</sub> (Image)

The programming of this EF follows default parameter written in TS 31.102 annex E.

#### 8.3.5.1.2 Image Instance Data Files

#### 8.3.5.2 Contents of files at the DF<sub>PHONEBOOK</sub> under the DF<sub>TELECOM</sub>

The programming of this EF is a test house option.

# 9 Default Message Contents

# 9.1 Default Message Contents for Signalling

# 9.1.1 Default RRC Message Contents (FDD)

This clause contains the default values of common messages, which unless indicated otherwise in specific clauses of TS 34.123-1, shall be transmitted and checked by the system simulator.

In this clause, decimal values are normally used. However, sometimes a hexadecimal value, indicated by an "H", or a binary value, indicated by a "B" is used.

The necessary L3 messages are listed in alphabetic order, with the exception of the SYSTEM INFORMATION messages, where it is the information elements which are listed in alphabetic order (this is because some information elements occur in several SYSTEM INFORMATION types).

#### **Default SYSTEM INFORMATION:**

NOTE:

SYSTEM INFORMATION BLOCK TYPE 1 (except for PLMN type "GSM-MAP"), SYSTEM INFORMATION BLOCK TYPE 8, SYSTEM INFORMATION BLOCK TYPE 9, SYSTEM INFORMATION BLOCK TYPE 10, SYSTEM INFORMATION BLOCK TYPE 14, SYSTEM INFORMATION BLOCK TYPE 15 and SYSTEM INFORMATION BLOCK TYPE 16 messages are not used.

## Contents of ACTIVE SET UPDATE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects one integer between 0 to 3
Integrity check info	
- 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.
<ul> <li>RRC message sequence number</li> </ul>	SS provides the value of this IE, from its internal counter.
Integrity protection mode info	Not Present
Ciphering mode info	Not Present
Activation time	Not Present – use default value
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
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	FALSE
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	Asknowledged made DLC	
<ul> <li>Measurement Report Transfer Mode</li> <li>Periodical Reporting/Event Trigger Reporting</li> </ul>	Acknowledged mode RLC Periodical reporting	
Mode	renoulcal reporting	
Additional measurement list	Not Present	
CHOICE Measurement type	Intra-frequency measurement	
- Intra-frequency measurement	,	
- Intra-frequency cell info list		
<ul> <li>CHOICE intra-frequency cell removal</li> </ul>	Not present	
- New intra-frequency cell		
- Intra-frequency cell-id	1	
- Cell info	0.15	
- Cell individual offset	OdB	
<ul><li>Reference time difference to cell</li><li>Read SFN number</li></ul>	Not Present FALSE	
- CHOICE mode	FDD	
- Primary CPICH info		
- Primary scrambling code	Different from the Default setting in TS34.108 clause 6.1	
a.y coramounig code	(FDD)	
<ul> <li>Primary CPICH Tx power</li> </ul>	Not Present	
- TX Diversity indicator	FALSE	
- Cells for measurement	Not present	
- Intra-frequency measurement quantity	Not Present	
- Intra-frequency reporting quantity		
<ul> <li>Reporting quantities for active set cells</li> <li>Cell synchronisation information reporting</li> </ul>	FALSE	
indicator	I ALSE	
- Cell Identity reporting indicator	TRUE	
- CPICH Ec/N0 reporting indicator	FALSE	
- CPICH RSCP reporting indicator	TRUE	
<ul> <li>Pathloss reporting indicator</li> </ul>	FALSE	
- Reporting quantities for monitored set cells		
- Cell synchronisation information reporting	FALSE	
indicator - Cell Identity reporting indicator	TRUE	
- CPICH Ec/N0 reporting indicator	FALSE	
- CPICH RSCP reporting indicator	TRUE	
- Pathloss reporting indicator	FALSE	
- Reporting quantities for detected set cells	Not Present	
- Reporting cell status		
- CHOICE reported cell	Report cell within active set and/or monitored cells on used frequency	
- Maximum number of reported cells	2	
- Measurement validity	Not Present	
- CHOICE report criteria	Periodic reporting criteria	
- Amount of reporting	Infinity	
- Reporting interval	64 sec	
DPCH Compressed mode status info	Not Present	

# Contents of MEASUREMENT CONTROL FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	See the test content

# Contents of MEASUREMENT REPORT message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Measurement identity	1
Measured Results	
<ul> <li>Intra-frequency measured results</li> </ul>	
- Cell measured results	
- Cell Identity	Not present
- Cell synchronisation information     - Primary CPICH info	Checked that this IE is absent
- Primary scrambling code	Different from the Default setting in TS34.108 clause 6.1 (FDD)
- CPICH Ec/N0	Checked that this IE is absent
- CPICH RSCP	Checked that this IE is present
- Pathloss	Checked that this IE is absent
Measured results on RACH	Checked that this IE is absent
Additional measured results	Checked that this IE is absent
Event results	Checked that this IE is absent

# Contents of PAGING TYPE 1 message: TM (Speech in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
<ul> <li>CHOICE Used paging identity</li> </ul>	CN identity
- Paging cause	Terminating Conversational Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

# Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Streaming Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

# Contents of PAGING TYPE 1 message: TM (Packet in PS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- 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,	
DDC transaction identifier	A4, A5, A6	Arbitrorily cologte on integer between 0 and 0
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 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		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	A4 A0 A0	Not Present
New C-RNTI	A1, A2, A3, A4	Not Present
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3,	Not Present
	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
ONLY STATE	A4, A5, A6	l N / B
CN information info		Not Present
URA identity		Not Present
Downlink counter synchronisation info	A4 A2 A2	Not Present
Frequency info	A1, A2, A3, A4, A5	
- UARFCN uplink (Nu)	A4, A5	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		33dBm
CHOICE channel requirement	A5, A6	Not Present
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info
	A4	
- Uplink DPCH power control info		
- DPCCH power offset		-6dB
- PC Preamble		1 frame
- SRB delay - Power Control Algorithm		7 frames
- TPC step size		Algorithm1   1dB
- Scrambling code type		Long
- Scrambling code type - Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10
		Parameter Set
- TFCI existence		Reference to TS34.108 clause 6.10
		Parameter Set
- Number of FBI bit		Reference to TS34.108 clause 6.10
5		Parameter Set
- Puncturing Limit		Reference to TS34.108 clause 6.10
CHOICE Mode	A1 A2 A2	Parameter Set
CHOICE Mode	A1, A2, A3, A4, A5, A6	FDD
- Downlink PDSCH information	, , , , , , , , , , , , , , , , , , , ,	Not Present
Downlink information common for all radio links	A1, A2, A3	
- Downlink DPCH info common for all RL		
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0

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	
<ul> <li>Downlink DPCH info common for all RL</li> </ul>		
- Timing indicator		Initialise
- CFN-targetSFN frame offset		Not Present
<ul> <li>Downlink DPCH power control information</li> </ul>		
- DPC mode		0 (single)
- CHOICE mode	1	FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
<ul> <li>DL rate matching restriction information</li> </ul>		Not Present
- Spreading factor	1	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		D ( )
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
DDOOLL with OHO DOLL info		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 - Primary CPICH usage for channel estimation		
- Primary CPICH usage for channel estimation - DPCH frame offset	1	Primary CPICH may be used Set to value : Default DPCH Offset Value (as
- Di Oi Haine Oilset	1	currently stored in SS) mod 38400
- Power offset P <sub>Pilot-DPDCH</sub>		0
- Secondary CPICH info	1	Not Present
- DL channelisation code	1	Hot I loodit
- Secondary scrambling code	1	5
- Spreading factor	1	Reference to TS34.108 clause 6.10
Oproduing ractor		Parameter Set
- Code number	1	0
- Scrambling code change		No change
- TPC combination index	1	0
- SSDT Cell Identity	1	Not Present
- Closed loop timing adjustment mode	1	Not Present
- SCCPCH information for FACH	1	Not Present
Downlink information for each radio links	A4	112111000111
- Choice mode	1	FDD
- Primary CPICH info	1	
- Primary scrambling code	1	Ref. to the Default setting in TS34.108 clause
,	1	6.1 (FDD)
- PDSCH with SHO DCH info	1	Not Present
- PDSCH code mapping		Not Present

Information Element	Condition	Value/remark
- Downlink DPCH info for each RL		
- CHOICE mode		FDD
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value
		mod 38400
- Power offset P <sub>Pilot-DPDCH</sub>		0
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		5
- Spreading factor		Reference to TS34.108 clause 6.10
		Parameter Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>		Not Present
- SCCPCH information for FACH		Not Present
- 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 significant bit of the MAC-I.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Failure cause	Checked to see if it meets test requirement

# Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark
Message Type	A1, A2, A3,	
3. 71.	A4, A5, A6,	
	A7, A8	
RRC transaction identifier	,	Arbitrarily selects an integer between 0 and 3
Integrity check info		
- message authentication code		SS calculates the value of MAC-I for this
		message and writes to this IE. The first/
		leftmost bit of the bit string contains the most
		significant bit of the MAC-I.
<ul> <li>RRC message sequence number</li> </ul>		SS provides the value of this IE, from its
		internal counter.
Integrity protection mode info		Not Present
Ciphering mode info		Not Present
Activation time	A1, A2, A3	(256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time	A4, A5, A6,	Not Present
N. H. DAIT!	A7, A8	N. B.
New U-RNTI	A1, A2, A3,	Not Present
	A4, A5, A6,	
Name O DAITI	A7, A8	Not Decemb
New C-RNTI	A1, A2, A3,	Not Present
New C-RNTI	A4, A7, A8 A5, A6	14040 4040 4040 4040
New DSCH-RNTI	A5, A6 A1, A2, A3,	'1010 1010 1010 1010'  Not Present
New DSCH-KNTI	A1, A2, A3, A4, A5, A6,	Not Fresent
	A7, A8	
RRC State indicator	A1, A2, A3,	CELL DCH
Titto State indicator	A4, A7, A8	0222_0011
RRC State indicator	A5, A6	CELL_FACH
UTRAN DRX cycle length coefficient	A1, A2, A3,	Not Present
	A4, A5, A6,	
	A7, A8	
CN information info		Not Present
URA identity		Not Present
Signalling RB information to setup		Not Present
RAB information for setup	A1, A7	
- RAB info		
- RAB identity		0000 0001B
		The first/ leftmost bit of the bit string contains
ON departie identify		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		10
- RB identity - PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE RLC inio type - CHOICE Uplink RLC mode		TM RLC
- OHOICE OPIIIIK NEC MODE		TIVITALO

Information Element	Condition	Value/remark
- Transmission RLC discard	20/10/10/1	Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		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		DCH
- UL Transport channel identity		DCH   1
- Logical channel identity		Not Present
- 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
- DCH Transport channel identity		6
		Not Present
- DL DSCH Transport channel identity		Not Present
- Logical channel identity	AO AO	Not Present
RAB information for setup - RAB info	A2, A8	
		0000 0001B
- RAB identity		
		The first/ leftmost bit of the bit string contains
ON demands identify.		the most significant bit of the RAB identity.
- CN domain identity		CS domain
- NAS Synchronization Indicator		Not Present
- Re-establishment timer		useT314
- RB information to setup		40
- RB identity		10
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
- RB mapping info		
- Information for each multiplexing option		N . B
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
- MAC logical channel priority		6
- Downlink RLC logical channel info		1
- Number of downlink RLC logical channels		
- Downlink transport channel type		DCH
- DL DCH Transport channel identity		6 Not Brogent
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
- RB identity		11 Net 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		Not Droppet
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		2 Not Brown and
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured

Information Element	Condition	Value/remark
- MAC logical channel priority		6
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels		1
- Downlink transport channel type		DCH
- DL DCH Transport channel identity		7
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
- RB identity		12
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
- RB mapping info		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		3
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
		T
- MAC logical channel priority		6
- Downlink RLC logical channel info		4
- 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,	
5.5.4	A6	
- RAB info		(AM DTCH for PS domain)
- RAB identity		0000 0101B
		The first/ leftmost bit of the bit string contains
<b>21.</b> 1. 1. 1. 1.		the most significant bit of the RAB identity.
- CN domain identity		PS domain
- NAS Synchronization Indicator		Not Present
- Re-establishment timer		useT315
- RB information to setup		
- RB identity		20
- PDCP info		
- Support for lossless SRNS relocation		FALSE
- Max PDCP SN window size		Not present
- PDCP PDU header		Absent
- Header compression information		Not present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		AM RLC
- Transmission RLC discard		l., <u>-</u> , .
- 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
<ul> <li>Last transmission PDU poll</li> </ul>		TRUE
- Last retransmission PDU poll		TRUE
- Poll_Windows		99
- Timer_poll_periodic		Not Present
- CHOICE Downlink RLC mode		AM RLC
- In-sequence delivery		TRUE
- Receiving window size		128
- Downlink RLC status info		

Information Element	Condition	Value/remark
- Timer_status_prohibit		200
- Timer_EPC		Not Present
- Missing PDU indicator		TRUE
- Timer_STATUS_periodic		Not Present
- RB mapping info		
<ul> <li>Information for each multiplexing option</li> </ul>		2 RBMuxOptions
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
<ul> <li>MAC logical channel priority</li> </ul>		8
- Downlink RLC logical channel info		
<ul> <li>Number of downlink RLC logical channels</li> </ul>		1
<ul> <li>Downlink transport channel type</li> </ul>		DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>		6
<ul> <li>DL DSCH Transport channel identity</li> </ul>		Not Present
<ul> <li>Logical channel identity</li> </ul>		Not Present
<ul> <li>RLC logical channel mapping indicator</li> </ul>		Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>		1
<ul> <li>Uplink transport channel type</li> </ul>		RACH
- UL Transport channel identity		Not Present
<ul> <li>Logical channel identity</li> </ul>		7
- CHOICE RLC size list		Explicit list
- RLC size index		Reference to TS34.108 clause 6 Parameter
		Set
- MAC logical channel priority		8
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels		1
- Downlink transport channel type		FACH
- DL DCH Transport channel identity		Not Present
- DL DSCH Transport channel identity		Not Present
- Logical channel identity  RB information to be affected	A1, A2, A3,	7 Not Present
The information to be allocted	A4, A5, A6,	THE THEODING
	A7, A8	
Downlink counter synchronisation info	A1, A2, A3,	Not Present
	A4, A5, A6,	
	A7, A8	
UL Transport channel information for all transport	A1, A2, A3,	
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		N   1   1   1   1   1   1   1   1   1
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from TS34.108
CTCC information		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
-0110		Parameter Set
- Power offset information		i didilietei Oet
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to
3.13.32 Suil 1 dolois		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 ·

Information Element	Condition	Value/remark
		(Not Present if the CHOICE Gain Factors is set
- Reference TFC ID		to Computed Gain Factors)
- CHOICE mode		FDD
- Power offset P p-m		Not Present
Deleted UL TrCH information	A1, A2, A3, A4, A5, A6,	Not Present
	A7, A8	
Added or Reconfigured UL TrCH information	A1, A3 A4,	1 DCH added, 1 DCH reconfigured
- Uplink transport channel type	A5, A6, A7	DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type     - Dynamic Transport format information		Dedicated transport channels
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List - Transmission Time Interval		(This IE is repeated for TFI number.) Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
·		Set
- CHOICE Logical Channel list     - Semi-static Transport Format information		All
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
_		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Uplink transport channel type		DCH
- UL Transport channel identity - TFS		5
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information - RLC Size		Reference to TS34.108 clause 6.10 Parameter
- RLC Size		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval - Number of Transport blocks		Not Present Reference to TS34.108 clause 6.10 Parameter
- Number of Transport blocks		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information - Transmission time interval		Potoronoo to TS34 108 clause 6 10 Parameter
- Transmission unte interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
Coding Pata		Set  Peteropee to TS34 108 clause 6 10 Parameter
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
CPC size		Set  Reference to TS34 109 clause 6 10 Peremeter
- 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
Unlink transport of annual time		DTCH)
Uplink transport channel type     UL Transport channel identity		DCH 5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information - RLC Size		Reference to TS34.108 clause 6.10 Parameter
NEO OIZO		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present

Information Element	Condition Value/remark	
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Paramet	er
rumber of transport blooks	Set	٠.
- CHOICE Logical Channel list	All	
<ul> <li>Semi-static Transport Format information</li> </ul>		
- Transmission time interval	Reference to TS34.108 clause 6.10 Paramet Set	er
- Type of channel coding	Reference to TS34.108 clause 6.10 Paramet Set	er
- Coding Rate	Reference to TS34.108 clause 6.10 Paramet	er
- Rate matching attribute	Reference to TS34.108 clause 6.10 Paramet	er
- CRC size	Reference to TS34.108 clause 6.10 Paramet	er
- Uplink transport channel type	DCH	
- UL Transport channel identity	1	
- TFS		
<ul> <li>CHOICE Transport channel type</li> </ul>	Dedicated transport channels	
<ul> <li>Dynamic Transport format information</li> </ul>		
- RLC Size	Reference to TS34.108 clause 6.10 Paramet Set	er
<ul> <li>Number of TBs and TTI List</li> <li>Transmission Time Interval</li> </ul>	(This IE is repeated for TFI number.) Not Present	
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Paramet	er
- CHOICE Logical Channel list	Set All	
<ul> <li>Semi-static Transport Format information</li> </ul>		
- Transmission time interval	Reference to TS34.108 clause 6.10 Paramet Set	er
- Type of channel coding	Reference to TS34.108 clause 6.10 Paramet Set	er
- Coding Rate	Reference to TS34.108 clause 6.10 Paramet Set	er
- Rate matching attribute	Reference to TS34.108 clause 6.10 Paramet	er
- CRC size	Reference to TS34.108 clause 6.10 Paramet	er
- Uplink transport channel type	DCH	
- UL Transport channel identity - TFS	2	
- CHOICE Transport channel type	Dedicated transport channels	
- Dynamic Transport format information	· ·	
- RLC Size	Reference to TS34.108 clause 6.10 Paramet Set	er
<ul> <li>Number of TBs and TTI List</li> <li>Transmission Time Interval</li> </ul>	(This IE is repeated for TFI number.) Not Present	
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Paramet	er
- CHOICE Logical Channel list	All	
- Semi-static Transport Format information		
- Transmission time interval	Reference to TS34.108 clause 6.10 Paramet	er
- Type of channel coding	Reference to TS34.108 clause 6.10 Paramet	er
- Coding Rate	Reference to TS34.108 clause 6.10 Paramet	er
- Rate matching attribute	Reference to TS34.108 clause 6.10 Paramet	er
- CRC size	Reference to TS34.108 clause 6.10 Paramet	er
- Uplink transport channel type	DCH	
- UL Transport channel identity - TFS	3	
- CHOICE Transport channel type	Dedicated transport channels	
<ul> <li>Dynamic Transport format information</li> <li>RLC Size</li> </ul>	Reference to TS34.108 clause 6.10 Paramet	er
	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
'		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 Tool 100 I to 5 to 5
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
Data matching attribute		Set Reference to TS34.108 clause 6.10 Parameter
- Rate matching attribute		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
- 01(0 3)26		Set
CHOICE mode	A1, A2, A3,	FDD
	A4, A5, A6,	
	A7, A8	
- CPCH set ID		Not Present
- Added or Reconfigured TrCH		Not Present
information for DRAC list		
DI Transport shape I information ( )	A4 A0 A7	
DL Transport channel information common for all	A1, A2, A7,	
transport channel - SCCPCH TFCS	A8	Not Present
- CHOICE mode		FDD
- CHOICE Mode - CHOICE DL parameters		SameasUL
DL Transport channel information common for all	A3, A4, A5,	Gameasoc
transport channel	A6	
- SCCPCH TFCS	7.0	Not Present
- CHOICE mode		FDD
- CHOICE DL parameters		Explicit
- DL DCH TFCS		·
- CHOICE TFCI Signalling		Normal
- TFCI Field 1 Information		
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure		
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from clause
- CTFC information		TS34.108 clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4
- CTFC		Reference to TS34.108 clause 6.10.2.4
- 011 0		Parameter Set
- Power offset information		Not Present
Deleted DL TrCH information	A1, A2, A3,	Not Present
	A4, A5, A6,	111111111111111111111111111111111111111
	A7, A8	
Added or Reconfigured DL TrCH information	A1	1 DCH added, 1 DCH reconfigured
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		1
- DCH quality target		
- BLER Quality value		-2.0   DCH
Downlink transport channel type     DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		5
- DCH quality target		
- BLER Quality value		-2.0
Added or Reconfigured DL TrCH information	A3, A4, A5,	2 TrCHs(DCH for DCCH and DCH for DTCH)
	A6, A7	
- Downlink transport channel type		DCH

Information Element	Condition	Value/remark
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		5
- DCH quality target		
- 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
<ul> <li>Number of TBs and TTI List</li> </ul>		(This IE is repeated for TFI number.)
<ul> <li>Dynamic transport format information</li> </ul>		
<ul> <li>Transmission Time Interval</li> </ul>		Not Present
<ul> <li>Number of Transport blocks</li> </ul>		Reference to TS34.108 clause 6.10 Parameter
		Set
<ul> <li>CHOICE Logical Channel list</li> </ul>		All
<ul> <li>Semi-static Transport Format information</li> </ul>		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
- Coding Rate		Set Reference to TS34.108 clause 6.10 Parameter
- Couling Nate		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
<ul> <li>Uplink transport channel type</li> </ul>		DCH
- UL TrCH identity		5
- DCH quality target		
- BLER Quality value		2.0
<ul> <li>Downlink transport channel type</li> </ul>		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Explicit
- TFS		5 5 4 4
<ul> <li>CHOICE Transport channel type</li> <li>Dynamic transport format information</li> </ul>		Dedicated transport channel
- Bynamic transport format information - RLC Size		Reference to TS34.108 clause 6.10 Parameter
1120 0120		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		, , , , , , , , , , , , , , , , , , , ,
- Transmission Time Interval		Not Present
<ul> <li>Number of Transport blocks</li> </ul>		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
<ul> <li>Semi-static Transport Format information</li> </ul>		
- Transmission time interval		Reference to TS34.108 clause 6.10 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
55 55		Set

- DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel dentity - CHOICE Transport channel type - Dynamic transport format information - RLC Size - CHOICE Logical Channel list - Sami-static Transport Format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Sami-static Transport Format information - Transmission time interval - Transmission time interval - Transmission time interval - Transmission time interval - Coding Rate - Cading Rate - Cading Rate - BLER Quality value - Downlink transport channel type - Du Transport channel dentity - CHOICE Logical Channel list - Semi-static Transport channel type - Dynamic transport format information - Transmission time interval - Trype of channel coding - CAC size - DCH quality target - BLER Quality value - Downlink transport channel type - Dynamic transport format information - Transmission time interval - Number of TES and TTI List - Dynamic transport format information - Transmission time interval - Trype of channel coding - Coding Rate - CHOICE Logical Channel list - Semi-static Transport format information - Transmission time interval - Trype of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - DRA SER QUALITY DOWER - DRA SER QUALITY DRA SER QUALITY DRA S	Information Element	Condition	Value/remark
- Downlink transport channel lentity - CHOICE DL parameters - TFS - CHOICE Transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Type of channel coding - Coding Rate - CHC size - Number of TBs and TTI List - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - RLC size - Number of Transport blocks - CHC size - CHC size - Number of Transport blocks - CHC size - CHC			
- DL Transport channel identity - CHOICE D parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport blocks - CHOICE Logical Channel list - Semi-static Transport information - Transmission time interval - Number of Tas and TTI List - Choice Logical Channel list - Semi-static Transport information - Transmission time interval - Type of channel coding - Coding Rate - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - Duramic transport format information - Transmission time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Number of TBs and TTI List - Semi-static Transport channel site - Semi-static Transport format information - Transmission time interval - Number of TBs and TTI List - Semi-static Transport format information - Transmission time interval - Number of TBs and TTI List - Semi-static Transport format information - Transmission time interval - Number of TBs and TTI List - Semi-static Transport format information - Transmission time interval - Number of TBs and TTI List - Semi-static Transport format information - Transmission time interval - Not Present - CRC size - CCHOICE 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 - CRC size - DCH quality target - BLER Quality value - CRC size - CCHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Not Present - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference	- BLER Quality value		Not Present
- CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - 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 - Downlink transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - CCHOICE 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 - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - 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 -			DCH
- TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport blocks - CHOICE Logical Channel list - Semi-static Transport blocks - Coding Rate - Cading Rate - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - Dynamic transport channel type - Dynamic transport format information - RIC Size - CHOICE Logical Channel list - Semi-static Transport point information - Transmission time interval - Type of channel coding - Coding Rate - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - Dynamic transport channel type - Dynamic transport format information - RIC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Type of channel coding - Coding Rate - CHOICE Logical Channel list - Semi-static Transport port format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - CHOICE Logical Channel list - Semi-static Transport port 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 - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality value - CRER CRC size - CRC			7
- CHOICE Transport channel type - Dynamic transport format information - RLC Size  - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Rate matching attribute - CCR Size  - DOH quality target - BLER Quality value - Downlink transport channel type - Dynamic transport format information - RLC Size - CHOICE Logical Channel list - Semi-static Transport pormat information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink 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 polocks - CHOICE Logical Channel list - Semi-static Transport format information - Transmission Time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Not Present - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission Time interval - Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission Time interval - Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission Time interval - Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission Time interval - Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission Time Interval - Not Present - Reference to TS34.108 clause 6.10 Parameter Set - Reference to TS34.108 clause 6.10 Parameter Set - Reference to TS34.108 clause 6.10 Para	- CHOICE DL parameters		Explicit
- Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Coding Rate - Carc size - DCH quality target - BLER Quality value - Downlink transport channel type - Du Transport channel identity - CHOICE Dc parameters - TFS - CHOICE Transport channel type - Du Transport channel information - Transmission Time interval - Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Transport channel type - Dynamic transport format information - Transmission Time Interval - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Poly quality	- TFS		
Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TF1 number.)  Number of Transport format information - 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 - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel type - DL Transport format information - Transmission Time Interval - Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Transport channel type - Dynamic transport format information - RLC Size - Number of Transport format information - Transmission Time Interval - Number of Transport Format information - Transmission Time Interval - Type of channel coding - Coding Rate - Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission Time Interval - Type of channel coding - Coding Rate - Reference to TS34.108 clause 6.10 Parameter - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - 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 cl	- CHOICE Transport channel type		Dedicated transport channel
- Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - DL transport channel lype - DU transport channel leftity - CHOICE Transport channel lype - Dynamic transport format information - Transmission Time interval - Not Present - Reference to TS34.108 clause 6.10 Parameter Set - Not Present - DCH quality value - Downlink transport channel lype - Dynamic transport format information - Transmission Time Interval - Number of Tansport blocks - 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 - DCH quality target - CHOICE Logical Channel list - Reference to TS34.108 clause 6.10 Parameter Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Re	<ul> <li>Dynamic transport format information</li> </ul>		·
- Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport format information - Transmission time interval - Type of channel coding - Coding Rate - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - Dynamic transport format information - Transmission time interval - Reference to TS34.108 clause 6.10 Parameter Set - Not Present DCH - Reference to TS34.108 clause 6.10 Parameter Set - Reference to TS34.108 clause 6.10 Parameter Set - Not Present DCH - 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 - CHOICE Logical Channel list - 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 TS34.108 clause 6.10 Pa	- RLC Size		Reference to TS34.108 clause 6.10 Parameter
Dynamic transport format information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel lype - DL Transport channel lype - DL Transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport format information - Transmission Time Interval - Type of channel coding - Coding Rate - 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 - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Type of channel coding - Coding Rate - R			Set
- Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Coding Rate - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport slocks - CHOICE Logical Channel list - Semi-static Transport spot plocks - 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 - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - CRC size			(This IE is repeated for TFI number.)
- Number of Transport blocks  - CHOICE Logical Channel list - Semi-static Transport somation - Transmission time interval  - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport channel type - DL Transport channel identity - CHOICE DI parameters - TFS - CHOICE Transport channel impress - Transmission time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - 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 - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality salue - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER	<ul> <li>Dynamic transport format information</li> </ul>		
- 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 - Downlink transport channel type - Dynamic transport channel type - Dynamic transport format information - Transmission Time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission Time interval - Semi-static Transport channel type - Dynamic transport format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Downlink transport format information - Transmission time interval - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - DCH quality target - BLER Quality value - CRC size - DCH quality target - BLER Quality value - Transmission time interval - CRC size - DCH quality target - BLER Quality value - Transport channel information - Transmisen time interval - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34			Not Present
- 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 - Downlink transport channel type - DL Transport channel identity - CHOICE Transport channel itype - Dynamic transport format information - RLC Size - Number of TBs and TTI List - Dynamic transport format information - Transmission time interval - Number of Transport format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - CHOICE Logical Channel sit - 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 s	<ul> <li>Number of Transport blocks</li> </ul>		
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- Coding Rate  - Rate matching attribute  - Rate matching attribute  - CRC size  - DCH quality target  - BLER Quality value  Frequency info  - UARFCN uplink (Nu)  - UARFCN downlink (Nd)  Frequency info  - UARFCN downlink (Nd)  Frequency info  - Warf CN downlink (Nd)  - CRC size  - DCH quality target  - BLER Quality value  - A1, A2, A3, A4, A5, A7, A8  - CRC size  - DCH quality target  - BLER Quality value  - Not Present  Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present.  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	- Type of channel coding		
- Coding Rate  - Rate matching attribute  - CRC size  - DCH quality target - BLER Quality value  Frequency info  - UARFCN uplink (Nu)  - UARFCN downlink (Nd)  Frequency info  - UARFCN downlink (Nd)  Frequency info  - CRC size  - A1, A2, A3, A4, A5, A7, A8  - Reference to TS34.108 clause 6.10 Parameter Set  Not Present  - Not Present  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.	. , , , , , , , , , , , , , , , , , , ,		
- Rate matching attribute  - Rate matching attribute  - CRC size  - DCH quality target - BLER Quality value  Frequency info  - UARFCN uplink (Nu)  - UARFCN downlink (Nd)  - UARFCN downlink (Nd)  - UARFCN downlink (Nd)  - Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present.  - Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  - Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  - Reference to clause 5.1 Test frequencies if frequency is different from the current frequency is different from the current frequency otherwise set to Not Present.  - Reference to clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present.	- Coding Rate		
- Rate matching attribute  - CRC size  - DCH quality target - BLER Quality value  Frequency info  A1, A2, A3, A4, A5, A7, A8  - UARFCN uplink (Nu)  - UARFCN downlink (Nd)  Reference to TS34.108 clause 6.10 Parameter Set  Not Present  Reference to TS34.108 clause 6.10 Parameter Set  Not Present  Reference to Clause 5.1 Test frequencies if frequency is different from the current frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.	<b>3</b>		
- CRC size  - DCH quality target - BLER Quality value  Frequency info  A1, A2, A3, 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 otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  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	- Rate matching attribute		
- CRC size  - DCH quality target - BLER Quality value  Frequency info  A1, A2, A3, A4, A5, A7, A8  - UARFCN uplink (Nu)  - UARFCN downlink (Nd)  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.	Trans matering and all		
- DCH quality target - BLER Quality value  Frequency info  A1, A2, A3, 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 otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.  Reference to clause 5.1 Test frequencies if frequency otherwise set to Not Present.	- CRC size		
- BLER Quality value  Frequency info  A1, A2, A3, 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 otherwise set to Not Present.  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	3.1.2 3.2.		
- BLER Quality value  Frequency info  A1, A2, A3, 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 otherwise set to Not Present.  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	- DCH quality target		
Frequency info  A1, A2, A3, 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 otherwise set to Not Present.  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			Not Present
- 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 is different from the current frequency otherwise set to Not Present.  Frequency info  A6  Not Present		A1, A2, A3,	
- 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 is different from the current frequency otherwise set to Not Present.  Frequency info  A6  Not Present			
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			
frequency is different from the current frequency otherwise set to Not Present.  - UARFCN downlink (Nd)  - 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	- UARFCN uplink (Nu)		
frequency otherwise set to Not Present.  - UARFCN downlink (Nd)  - 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			frequency is different from the current
- 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			frequency otherwise set to Not Present.
frequency otherwise set to Not Present.  Frequency info  A6  Not Present	- UARFCN downlink (Nd)		
Frequency info A6 Not Present			
Maximum allowed UL TX power A1, A2, A3,   33dBm			
	Maximum allowed UL TX power	A1, A2, A3,	33dBm

Information Element	Condition	Value/remark
	A4, A7, A8	
Maximum allowed UL TX power	A5, A6	Not Present
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info
Unlink DDCH navor control info	A4, A7, A8	
Uplink DPCH power control info     DPCCH power offset		-6dB
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
- Scrambling code type		Long
- Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit		Reference to TS34.108 clause 6.10 Parameter
Dun atunin a Line it		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 Not Present
- CFN-targetSFN frame offset     - Downlink DPCH power control information		Not Present
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 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
0110105		Set
- CHOICE mode		FDD Not Present
- DPCH compressed mode info - TX Diversity mode		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	
- 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
<ul> <li>Power offset P<sub>Pilot-DPDCH</sub></li> <li>DL rate matching restriction information</li> </ul>		0 Not Present
- DE rate matching restriction information - Spreading factor		Reference to TS34.108 clause 6.10 Parameter
- Fixed or Flexible Position		Set Reference to TS34.108 clause 6.10 Parameter
- TFCI existence		Set Reference to TS34.108 clause 6.10 Parameter
- CHOICE SF		Set Reference to TS34.108 clause 6.10 Parameter
- CHOICE mode		Set   FDD
- DPCH compressed mode info		Not Present
- DI OH compressed mode ililo		NOLFICOCIIL

Information Element	Condition	Value/remark
- 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 link list	A1, A2, A3,	
	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		D: ODIOLI I
- Primary CPICH usage for channel estimation		Primary CPICH may be used
- DPCH frame offset		Set to value Default DPCH Offset Value (as
On and down ORIOU info		currently stored in SS) mod 38400
- Secondary CPICH info		Not Present
- DL channelisation code - Secondary scrambling code		1
- Secondary scrambling code - Spreading factor		Reference to TS34.108 clause 6.10 Parameter
- Spreading factor		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH		Not Present
Downlink information for each radio link list	A5	
- Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
-		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not present
- SCCPCH information for FACH		Not Present
Downlink information for each radio link list	A6	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	Not checked
Uplink counter synchronisation info	Not checked

# Contents of RADIO BEARER SETUP FAILURE message: $\ensuremath{\mathsf{AM}}$

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 identifies	A4,A5,A6	Aubituruilly colored on interest between 0 10
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		CC coloulates the value of MAC Life with
- 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	A 4 A 0 A 0	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".
<ul> <li>RB information to reconfigure</li> </ul>		(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
<ul> <li>RB information to reconfigure</li> </ul>		(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 Not Dragget
- 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 Propert
- PDCP info - PDCP SN info		Not Present
- PDCP SN INIO - RLC info		Not Present Not Present
		Not Present Not Present
- RB mapping info		Not Present Not Present
- RB stop/continue		
- RB information to reconfigure		(TM DTCH)
- RB identity		10 Not Present
- 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	- Containion	Not Present
RB information to reconfigure list	A2	TS25.331 specifies that "Although this IE is not
		always required, need is MP to align with
		ASN.1".
- RB information to reconfigure		(UM DCCH for RRC)
- RB identity		1
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present Not Present
- RB stop/continue		1101111000111
- RB information to reconfigure - RB identity		(AM 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 NAS_DT High priority)
- RB identity		3
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(AM DCCH for NAS_DT Low priority)
- RB identity		4
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present Not Present
- RB mapping info - RB stop/continue		Not Present
- RB information to reconfigure		(TM DTCH)
- RB identity		10
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(TM DTCH)
- RB identity		11
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
- RB information to reconfigure		(TM DTCH)
		(This IE is needed for 12.2 kbps and 10.2
- RB identity		kbps)
- RB identity - PDCP info		Not Present
- PDCP IIII0 - PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
RB information to reconfigure list	A3,A4,A5,	TS25.331 specifies that "Although this IE is not
	A6	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	I	2

Information Element	Condition	Value/remark
- PDCP info	- Condition	Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- RB information to reconfigure		(AM DCCH for NAS_DT High priority)
- RB identity		3 Not Bresset
- PDCP info		Not Present
- PDCP SN info		Not Present
- RLC info		Not Present
- RB mapping info		Not Present
- RB stop/continue		Not Present
<ul> <li>RB information to reconfigure</li> </ul>		(AM DCCH for NAS_DT Low priority)
- RB identity		4
- PDCP info		Not Present
- PDCP SN info		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 Not Present
- PDCP SN info		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 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		
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure information		Complete reconligaration
- CHOICE CTFC Size		
- OHOIGE OTEG SIZE		Number of hits used must be enough to sever
		Number of bits used must be enough to cover
		all combinations of CTFC from TS34.108
0750: (		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set.
- CTFC information		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and
- CTFC information		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4
		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set
- CTFC information		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4
- CTFC		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set
- CTFC - Power offset information		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set
- CTFC		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to
- CTFC - Power offset information		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set
- CTFC - Power offset information		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to
- CTFC - Power offset information - CHOICE Gain Factors		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps)
- CTFC - Power offset information - CHOICE Gain Factors		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps)
- CTFC - Power offset information - CHOICE Gain Factors		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set  Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set
- CTFC - Power offset information - CHOICE Gain Factors - Gain factor βc		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)
- CTFC - Power offset information - CHOICE Gain Factors		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15
- CTFC - Power offset information - CHOICE Gain Factors - Gain factor βc		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set
- CTFC  - Power offset information - CHOICE Gain Factors  - Gain factor βc  - Gain factor βd		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)
- CTFC  - Power offset information - CHOICE Gain Factors  - Gain factor βc  - Gain factor βd  - Reference TFC ID		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 0
- CTFC  - Power offset information - CHOICE Gain Factors  - Gain factor βc  - Gain factor βd  - Reference TFC ID - CHOICE mode		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set  Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 0 FDD
- CTFC  - Power offset information - CHOICE Gain Factors  - Gain factor βc  - Gain factor βd  - Reference TFC ID - CHOICE mode - Power offset P p-m		all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 0 FDD Not Present
- CTFC  - Power offset information - CHOICE Gain Factors  - Gain factor βc  - Gain factor βd  - Reference TFC ID - CHOICE mode	A1, A2, A3,	all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set  Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 0 FDD
- CTFC  - Power offset information - CHOICE Gain Factors  - Gain factor βc  - Gain factor βd  - Reference TFC ID - CHOICE mode - Power offset P p-m	A1, A2, A3, A4, A5,A6 A1, A2,	all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set. This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set Reference to TS34.108 clause 6.10.2.4 Parameter Set Computed Gain Factors(The last TFC is set to Signalled Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors) 0 FDD Not Present

Information Element	Condition	Value/remark
	A5,A6	0.T.O.U. (BOUL)
Added or Reconfigured UL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Uplink transport channel type		DCH
- UL Transport channel identity		5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
<ul> <li>Number of Transport blocks</li> </ul>		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
<ul> <li>Uplink transport channel type</li> </ul>		DCH
<ul> <li>UL Transport channel identity</li> </ul>		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
		Set
<ul> <li>Number of TBs and TTI List</li> </ul>		(This IE is repeated for TFI number.)
- 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
	<u> </u>	Set
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)
<ul> <li>Uplink transport channel type</li> </ul>		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
<ul> <li>Number of TBs and TTI List</li> </ul>		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
<ul> <li>Number of Transport blocks</li> </ul>		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

Information Element	Condition	Value/remark
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter
-		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
CHOICE mode	A1,A2,A3, A4,A5,A6	FDD
- CPCH set ID	74,75,76	Not Present
- Added or Reconfigured TrCH information for		Not Present
DRAC list DL Transport channel information common for all	A1, A2, A5,	Not Present
transport channel	A6	Not Fresent
DL Transport channel information common for all	A3,A4	
transport channel - SCCPCH TFCS		Not Present
- CHOICE mode		FDD
- CHOICE DL parameters		Explicit
- DL DCH TFCS		·
- CHOICE TFCI Signalling		Normal
- TFCI Field 1 Information		
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure - CHOICE CTFC Size		Number of bits used must be enough to cover
- GHOIGE GIFG SIZE		all combinations of CTFC from clause
		TS34.108 clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
- CTFC		Reference to TS34.108 clause 6.10.2.4
		Parameter Set
- Power offset information	11.10.10	Not Present
Deleted DL TrCH information	A1, A2, A3, A4, A5,A6	Not Present
Added or Reconfigured DL TrCH information	A1, A2, A5,	Not Present
The state of the s	A6	1.63.1.1966
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Downlink transport channel type		DCH
- DL Transport channel identity		10
- CHOICE DL parameters - Uplink transport channel type		Same as UL DCH
- UL TrCH identity		5
- DCH quality target		l <sup>o</sup>
- BLER Quality value		Not Present
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Explicit
- TFS - CHOICE Transport channel type		Dedicated transport channel
Dynamic transport format information     RLC Size		Reference to TS34.108 clause 6.10 Parameter
1,20 0,20		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information		Jet l
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter
- Coding Rate		Set Reference to TS34.108 clause 6.10 Parameter
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter
- CRC size		Set Reference to TS34.108 clause 6.10 Parameter
- DCH quality target		Set
	<u> </u>	1

Information Element	Condition	Value/remark
- BLER Quality value	- Containen	-2.0
Added or Reconfigured DL TrCH information	A3	
- Downlink transport channel type	7.0	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.)
<ul> <li>Dynamic transport format information</li> </ul>		
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
		Set
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set Tool 400 L O 40 B
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
000 :		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
DOLL modifies toward		Set
- DCH quality target		2.0
- BLER Quality value Frequency info	A4 A2 A2	-2.0
Frequency into	A1,A2,A3, A4,A5	
- UARFCN uplink (Nu)	A4,A5	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	A1,A2,A3,	33dBm
Maximum anowed 62 177 power	A4,A5,A6	OGGENT
CHOICE channel requirement	A1, A2, A3,	Uplink DPCH info
	A4	
-Uplink DPCH power control info		
- DPCCH power offset		-6dB
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1ďB
- Scrambling code type		Long
- Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of FBI bit		Reference to TS34.108 clause 6.10 Parameter
		Set
- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter
		Set
CHOICE channel requirement	A5, A6	Not Present
CHOICE Mode	A1,A2,A3,	FDD
D. II I DDCCULL (	A4,A5,A6	
- Downlink PDSCH information	45.40	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		Material
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		O (aire als.)
- DPC mode		0 (single)
- CHOICE mode		FDD

- TFCI existence  - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information common for all radio links - Downlink DPCH power control information - Special processed mode info - TK Diversity mode - SSDT information common for all radio links - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset Ppiscopoch - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TK Diversity mode - SSDT information - TV Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Pimany CPICH info - Secondary scrambling code - Channelisation code - DL channelisation code - Secondary scrambling code - Secondary scram	Information Element	Condition	Value/remark
- DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CHOICE Frod or Flexible Position - Tricl existence  - Downlink DPCH info common for all RL - Timing indicator - CPN-targetSPN faree offset - Downlink DPCH info common for all RL - Timing indicator - CPN-targetSPN faree offset - Downlink DPCH info common for all RL - Timing indicator - CPN-targetSPN faree offset - Downlink DPCH info common for all RL - Timing indicator - Private offset Previous offset - Downlink information perfection information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Downlink information per adio link list - Downlink information per adio link list - Downlink information per radio link list - Choice mode - Secondary scrambling code - Secondary scrambling co	- Power offset P <sub>Pilot-DPDCH</sub>		0
- Spreading factor  - Fixed or Flexible Position  - Fixed or Flexible Position  - Fixed or Flexible Position  - TFCI existence  - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  - Downlink information common for all radio links - Downlink DPCH info seach RL - Primary CPICH info - Power Offset Persend Position - TY Diversity mode - SSDT information - DPC compressed mode info - TX Diversity mode - SSDT information - DPC compressed mode info - TX Diversity mode - SSDT information - DPC compressed mode info - TX Diversity mode - CRN-targetSFM frame offset - Downlink DPCH info - TX Diversity mode - SSDT information - DPC compressed mode info - TX Diversity mode - SSDT information - DPC compressed mode info - TX Diversity mode - SSDT information present information - DPC compressed mode info - TX Diversity mode - SSDT information present information - DPC compressed mode info - TX Diversity mode - SSDT information present information - DPC compressed mode info - TX Diversity mode - SSDT information present information - DPCH frame offset - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information present information - DPCH frame offset - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information present information p			Not Present
Fixed or Flexible Position  - TFCI existence  - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  - Downlink information cormon for all radio link - TFCI existence  - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset Ppwor-poch - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - Fixed or Flexible Position - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  - Downlink information per radio link list - Downlink information for each radio link - Choice mode - Pimary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - DL channelisation code - Secondary scrambling code - Code number - Scrambling code change - TPC combination index - Code lumber - Scrambling code change - TPC combination index - Code lumber - Scrambling code change - TPC combination index - Code lumber - Scrambling code change - TPC combination index - Code lumber - Scrambling code change - TPC combination index - Code lumber - Scrambling code change - TPC combination index - Code lumber - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop trining adjustment mode - SCPCP Linformation for FACH - Downlink information per radio link list - Downlink information per cach radio link - Choice mode - Primary CPICH info - Scrambling code - Secondary Scrambling code - Scrambling code change - TPC combination index - SCPC PLC linformation for EACH - Downlink information per cach radio link - Choice mode - Primary CPICH info - Scrambling code - Scrambling c			
Fixed or Flexible Position  - TFCI existence  - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink pPCH info cach radio link - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - DPCH compressed mode info - TX Diversity mode - SSDT information - DPCH compressed mode info - TX Diversity mode - SSDT information common for all radio links - Downlink DPCH info cach radio link - Power offset Paus DPCH - DWC offset Paus DPCH - TX Diversity mode - SDT information - DPCH compressed mode info - TX Diversity mode - SDT information - Default DPCH Offset Value  Downlink information pre radio link list - Downlink information ro each radio link - Choice mode - Pimary CPICH linfo - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH linfo - Secondary scrambling code - channelisation code - DL channelisation code - Channelisation code - Secondary Scrambling code - Secondary Scrambling code - Channelisation code - Secondary Scrambling code - Se			
- TFCI existence  - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information common for all radio links - Downlink DPCH info - Power offset Paucocch - Power offset Paucocch - Power offset Paucocch - CHOICE SF  - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information common for all RL - Timing indicator - CPM-targetSFN frame offset - Downlink DPCH power control information - DPC mode - Power offset Paucocch - Power offset Paucocch - Power offset Paucocch - Power offset Paucocch - CHOICE SF - CHOICE SF - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  - SSDT information for each radio link ist - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary Scrambling code - channelisation code - DL channelisation code - Channelisation code - Secondary scrambling code - S	- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
- CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH offset Value  Downlink information common for all RL - Timing indicator - CFN-HargedSFN frame offset - Downlink DPCH info - Power offset Priscoroch - CL CHOICE mode - CHOICE mode - CHOICE mode - CHOICE mode - Power offset Priscoroch - CL raise matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information per radio link list - Downlink information per radio link list - Primary CPICH info - Primary Scrambling code - Phimary CPICH info - Secondary scrambling code - Channelisation code - DL channelisation code - Secondary scrambling code - Scorodary scrambling code - Scorod	- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
- DPCH compressed mode info - TX Diversity mode - 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 power control information - DPC mode - CHOICE mode - Power offset Phate pepch - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TCI existence - TCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary Scrambling code - Primary CPICH info - PSCH code mapping - Downlink DPCH offset RL - Primary CPICH info - Secondary Scrambling code - Channelisation code - Secondary scrambling code - Secondary scrambling code - Secondary scrambling code - Secondary scrambling code - Code number - Scrambling code change - TPC combination for FACH - Downlink information per radio link list - Choice mode - CCQCH information and scrambling code - Secondary Scrambling code - Code number - Scrambling code change - TPC combination index - Clocel information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode - SCCPCHOI information per radio link list - Choice mode	- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
- TX Diversity mode - SSDT information - Default DPCH Offset Value  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 Pasicapicial - Du rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Pimary CPICH info - Secondary scrambling code - Channelisation code - Scendary scrambling code - Spreading factor - Scanabling ode change - TPC combination index - SCDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information per radio link list - Downlink information per radio link list - Onolink information per radio link list - Downlink DPCH dinting ode - Scanabling ode change - SCPCH information ode - Scondary scrambling code - Spreading factor - Scanabling ode change - TPC combination index - SCPCH information per radio link list - Ownlink information per radio link list - Ownlink information per radio link list - Downlink information per radio link list - Ownlink information per radio lin	- DPCH compressed mode info		
- SSDT information - Default DPCH Offset Value  Downlink information common for all radio links - Downlink DPCH information common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH mode - Power offset Prace-pocht - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information per radio link list - Downlink information per radio link list - Downlink information per radio link list - Phimary Scrambling code - Primary CPICH info - Secondary Scrambling code - Channelisation code - D. Channelisation code - Secondary Scrambling code - Scrambling code change - TPC combination inder - Scrambling code change - TPC combination inder - Scrambling code change - TPC combination inder - Closed loop timing adjustment mode - SCCPCH information per radio link ist - Downlink information per radio ink list - Ohonice mode - Scrambling code change - TPC combination inder - Closed loop timing adjustment mode - SCCPCH information per radio link list - Downlink information per radio link list - Choice mode - Downlink information per radio link list - Choice mode - Downlink information per radio link list - Choice mode - Default DPCH Offset Value - SSDT Cell identity - Closed loop timing adjustment mode - SCCPCH information per radio link list - Downlink information per radio link list - Choice mode - SCCPCH information per radio link list - Downlink information per radio link list - Choice mode - Primary CPICH ling each radio link - Choice mode - Primary CPICH ling each radio link - Choice mode - SCCPCH information per radio link list - Downlink information per radio link list - Choice mode - Primary CPICH ling each radio link - Choice mode - Primary CPICH ling each radio link - Choice mode - Primary CPICH ling each radio link - Choice mode - Primary CPICH ling each radio link - Choice mode			
Default DPCH Offset Value  Downlink information common for all radio links - Default DPCH offset Value  Downlink DPCH info - Default DPCH offset Value - CFN-targetSPN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset P <sub>PlaceDPCH</sub> - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Pimary CPICH info - Secondary scrambling code - channelisation code - Secondary scrambling code - Scrambling code change - TPC combination index - SSDT cell Identity - Closed goop timing adjustment mode - SCCPCH information per radio link list - Downlink information for each radio link - Choice mode - Pombound in formation of the Choice mode - Combination index - SSDT cell Identity - Closed goop timing adjustment mode - SCCPCH information per radio link list - Downlink information for each radio link - Choice mode - SCCPCH information for each radio link - Choice mode - SCCPCH information for each radio link - Choice mode - SCCPCH information for each radio link - Choice mode - SCCPCH information for each radio link - Choice mode - SCCPCH information for each radio link - Choice mode - Pimary CPICH infor - ScCONGRAY CPICH info - SCCPCH information for each radio link - Choice mode - SCCPCH information for each radio link - Choice mode - Pimary CPICH infor - SCCPCH information for each radio link - Choice mode - Pimary CPICH infor - Primary CPICH infor - SCCPCH information for each radio link - Choice mode - Pimary CPICH infor - Primary CPICH infor - Primary CPICH infor - SCCPCH information for each radio link - Choice mode - Primary CPICH info			
Downlink information common for all radio links   Downlink DPCH power control information   DPC mode   CPCN-targetSPN frame offset   Downlink DPCH power control information   DPC mode   CPCN-targetSPN frame offset   Downlink DPCH power control information   DPC mode   CPCN-targetSPN frame offset   DPCN-targetSPN frame offset   DPCN-			
- Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - PPC mode - CHOICE mode - Power offset Pisucepoch - Du rate matching restriction information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Pownlink information for each radio link - Choice mode - Pimary CPICH info - Secondary scrambling code - channelisation code - Secondary scrambling code - Spreading factor - Code number - Scambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPC information for FACH Downlink information per radio link list - Oownlink information for each radio link - Choice mode - Primary CPICH info - Secondary scrambling code - channelisation code - Scandary scrambling code - Spreading factor - Code number - Scandary code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for each radio link - Choice mode - Primary CPICH infor - Code number - SCCPCH information for each radio link - Choice mode - SCCPCH information for each radio link - Choice mode - Primary CPICH info - Secondary code change - TPC combination index - SCPCH information for each radio link - Choice mode - Primary CPICH infor - SCCPCH information for each radio link - Choice mode - Primary CPICH infor - SCCPCH information for each radio link - Choice mode - Primary CPICH infor - SCCPCH information for each radio link - Choice mode - Primary CPICH infor		A 4	Not Present
Timing indicator - C-GN-targetSPM frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - CHOICE mode - Power offset P <sub>PlesDPDCH</sub> - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value - Primary CPICH info - Primary scrambling code - Phany CPICH info - DPCH drame offset - Choice mode - DL channelisation code - Channelisation code - Secondary scrambling code - Secondary Scrambling code - Spreading factor - Code number - Scarambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information per radio link ist - Choice mode - Primary CPICH information or each radio link - Choice mode - D. Channelisation code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH - Downlink information for each radio link - Choice mode - Primary CPICH info - Present - Code number - Scrambling code change - TPC combination index - SCCPCH information for FACH - Downlink information per radio link list - Downlink information per radio link list - Choice mode - SCCPCH information for each radio link - Choice mode - Primary CPICH info - Primary CPICH info - Primary CPICH info - Sccondary scrambling code - Spreading factor - Code number - Scarambling code change - TPC combination index - SCCPCH information for each radio link - Choice mode - Primary CPICH info		A4	
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Downlink DPCH power control information DPC mode CHOICE mode Power offset PPilot-DPDCH DL rate matching restriction information Spreading factor  Fixed or Flexible Position TFCI existence  CHOICE SF DPCH compressed mode info TX Diversity mode SSDT information Default DPCH Offset Value  Downlink information per radio link list PPSCH code mapping Downlink information for each radio link PDSCH code mapping Downlink DPCH info PDSCH code mapping Downlink DPCH info for each RL Primary CPICH usage for channel estimation DPCH frame offset Secondary Scrambling code Channelisation code Secondary Scrambling code Secondary Scrambling code Secondary Scrambling code Secondary Scrambling code Channelisation code Secondary Scrambling code Secondary Scrambling code Secondary Scrambling code Secondary Scrambling code Channelisation code Secondary Scrambling code Secondary Scramblin			
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- TFCI existence  - CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link ist - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary Scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - Channelisation code - Channelisation code - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for each radio link list - Downlink information for each radio link list - Downlink information for each radio link list - Primary CPICH info - Secondary Scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH - Primary CPICH information for each radio link list - Downlink information per radio link list - Primary CPICH info - Secondary Scrambling code - Primary CPICH information for each radio link list - Primary CPICH information for each radio link list - Primary CPICH information for each radio link - Choice mode - Primary CPICH information for each radio link - Choice mode - Primary CPICH information for each radio link - Choice mode - Primary CPICH info	- Fixed or Flexible Position		Set Reference to TS34.108 clause 6.10 Parameter
- CHOICE SF  - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Downlink information per radio link list - Choice mode - Primary CPICH info - Primary scrambling code - Primary CPICH usage for channel estimation - DPCH frame offset - PL channelisation code - Secondary scrambling	- TFCI existence		
- DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value  Downlink information per radio link list -Downlink information per ach radio link - Choice mode - Primary CPICH info - Primary CPICH info - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH offset - Secondary scrambling code - Channelisation code - DL channelisation code - Secondary scrambling code - Secondary scr			Set
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- SSDT information - Default DPCH Offset Value  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code - Primary CPICH info - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCPCH information for EACH  Downlink information for each radio link - Choice mode - Primary CPICH info - Secondary scramble stimation - SCPCH information for each radio link - Choice mode - Primary CPICH info - Secondary scramble stimation - SCPCH information for FACH  Downlink information for each radio link - Choice mode - Primary CPICH info  A1, A2, A3  A1, A2, A3  FDD  Ref. to the Default setting in TS34.108 clause 6.1 (FDD)  Not Present Not Present Not Present Not Present  Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400  Not Present  Not Present  Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present Not Present			
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Downlink information per radio link list -Downlink information for each radio link - Choice mode - Primary CPICH info - Primary Scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for each radio link - Choice mode - Primary CPICH info  - Possible for each RL - Primary CPICH may be used - Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400 - Not Present - 2 - Reference to TS34.108 clause 6.10 Paramet Set - No change - No t Present - Not Present - Primary CPICH info			
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- Primary CPICH info - Primary scrambling code  - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for EACH  Downlink information for each radio link - Choice mode - Primary CPICH info  Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present  Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400 Not Present  2 Reference to TS34.108 clause 6.10 Paramet Set 0 No change 0 No change 0 Not Present Not Present Not Present Not Present Not Present FDD			
- Primary scrambling code  - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for EACH  Downlink information for each radio link - Choice mode - Primary CPICH info  Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Not Present Not Present  Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400 Not Present  Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400 Not Present  Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400 Not Present  On Not Present	- Choice mode		FDD
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- PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - DL channelisation code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for EACH  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info			Ref. to the Default setting in TS34.108 clause
- PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info	Timaly columning code		
- PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Second	- PDSCH with SHO DCH info		
- Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code -			
- Primary CPICH usage for channel estimation - DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH  - Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH may be used Set to value Default DPCH Offset Value (as currently stored in SS) mod 38400  Not Present  2 Reference to TS34.108 clause 6.10 Paramet Set  0 No change 0 No change 1 Not Present Not Present Not Present Not Present FDD			
- DPCH frame offset  - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Secondary scrambling code - Secondary scrambling code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH  - Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info			Primary CPICH may be used
- Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Secondary scrambling code - Secondary scrambling code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info			
- Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Secondary scra	Di Ori namo onoci		
- Secondary scrambling code - channelisation code - DL channelisation code - Secondary scrambling code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info	- Secondary CPICH info		
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- DL channelisation code - Secondary scrambling code - Spreading factor - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info			
- Secondary scrambling code - Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info			
- Spreading factor  - Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCPCH information for FACH  Downlink information per radio link list - Choice mode - Primary CPICH info			
- Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCPCH information for FACH  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info			
- Code number - Scrambling code change - TPC combination index - SSDT Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH  Downlink information per radio link list - Downlink information for each radio link - Choice mode - Primary CPICH info	- Spreading factor		
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Downlink information per radio link list -Downlink information for each radio link - Choice mode - Primary CPICH info			
-Downlink information for each radio link - Choice mode - Primary CPICH info			Not Present
- Choice mode - Primary CPICH info		A4	
- Primary CPICH info	-Downlink information for each radio link		
	- Choice mode		FDD
	- Primary CPICH info		
			Ref. to the Default setting in TS34.108 clause
6.1 (FDD)	j		

Information Element	Condition	Value/remark
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
<ul> <li>Downlink DPCH info for each RL</li> </ul>		
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>		Primary CPICH may be used
- DPCH frame offset		Set to value : Default DPCH Offset Value mod
		38400
- Secondary CPICH info		Not Present
- Secondary scrambling code		
- channelisation code		
- DL channelisation code		
- Secondary scrambling code		2
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH		Not Present
- Downlink information for each radio link	A5	
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
PROOFF STORING POLICY		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not present
- SCCPCH Information for FACH	10	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 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		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
Titte message sequence number		internal counter.
Integrity protection mode info		Not Present
Ciphering mode info		Not Present
Activation time	A1, A2, A3,	(256+CFN-(CFN MOD 8 + 8))MOD 256
	A7, A8	
Activation time	A4, A5, A6	Not Present
New U-RNTI	11 10 10	Not Present
New C-RNTI	A1,A2,A3,	Not Present
New C-RNTI	A4 A5, A6, A7,	1010 1010 1010 1010
INGW C-VIAII	A5, A6, A7,	
New DSCH-RNTI	A1, A2, A3,	Not Present
Now Boot Fixet	A4, A5, A6,	THOU TOOGHT
	A7, A8	
RRC State indicator	A1,A2, A3,	CELL_DCH
	A4	_
RRC State indicator	A5, A6, A7,	CELL_FACH
	A8	
UTRAN DRX cycle length coefficient	A1,A2,A3,	Not Present
	A4,A5,A6,	
ONLinformation info	A7, A8	Not Decemb
CN information info		Not Present Not Present
Signalling Connection release indication URA identity		Not Present
RAB information to reconfigure list		Not Present
RB information to release	A1,A2, A7,	
	A8	
- RB identity		10
RB information to release	A2, A8	
- RB identity		11
RB information to release	A2, A8	40
- RB identity	10.11.15	12
RB information to release	A3, A4, A5,	
- PR identity	A6	20
- RB identity RB information to be affected	A1,A2,	Not Present
No information to be affected	A3,A4,A5,	Not resent
	A6, A7, A8	
Downlink counter synchronisation info	A1,A2,A3,	Not Present
,	A4,A5,A6,	
	A7, A8	
UL Transport channel information for all transport	A1, A2, A3,	TFCS reconfigured to fit the new transport
channels	A4	channel configuration.
UL Transport channel information for all transport	A5, A6	Not Present
channels  Deleted III TrOU Information	A4 A0 A0	
Deleted UL TrCH Information	A1,A2, A3,	
- Uplink transport channel type	A5, A7, A8	DCH
- Transport channel identity		1
Deleted UL TrCH Information	A2, A8	<u> </u>
- Uplink transport channel type		DCH
- Transport channel identity		2
Deleted UL TrCH Information	A2, A8	
- Uplink transport channel type		DCH
- Transport channel identity		3

Information Element		Value/remark
Deleted UL TrCH Information	A4, A6	Not Present
Added or Reconfigured UL TrCH information	A5, A6, A7, A8	Not Present
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		
- Transmission time interval		According to TS34.108 clause 6.10.2.4.1.3
<del>-</del>		(standalone 13.6 kbps signalling radio bearer)
- Type of channel coding		According to TS34.108 clause 6.10.2.4.1.3
Onding Date		(standalone 13.6 kbps signalling radio bearer)
- Coding Rate		According to TS34.108 clause 6.10.2.4.1.3
Data matching attribute		(standalone 13.6 kbps signalling radio bearer)
- Rate matching attribute		According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- CRC size		According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
DL Transport channel information for all transport	A1, A2, A3,	TFCS reconfigured to fit the new transport
channels	A4, A7, A8	channel configuration.
DL Transport channel information for all transport	A5, A6	Not Present
Channels  Deleted DL TrCH Information	A1, A2, A3,	
- Downlink transport channel type	A5,A7, A8	DCH
- Transport channel identity		6
Deleted DL TrCH Information	A2, A8	DOLL
- Downlink transport channel type		DCH
- Transport channel identity	10.00	7
Deleted DL TrCH Information - Downlink transport channel type	A2, A8	DCH
- Transport channel identity		8
Deleted DL TrCH Information	A4, A6	Not Present
Added or Reconfigured DL TrCH information	A5, A6, A7,	Not Present
Added or Reconfigured DL TrCH information	A8 A1, A2, A3,	1 TrCHs(DCH for DCCH)
· ·	A1, A2, A3, A4	,
- 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,	INOUT LESCHE
Frequency into	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	A6	33dBm
Frequency info CHOICE channel requirement	A5, A6, A7,	Not Present Not Present
	A8	
CHOICE channel requirement	A1,A2,A3, A4	Uplink DPCH info

Information Element		Value/remark
		value/remark
- Uplink DPCH power control info		0.15
- DPCCH power offset		-6dB
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
- Scrambling code type		Long
- Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
TEOL assistance		
- 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
CITOTOL MICCO	A4,A5,A6,	
Develials DDCCH information	A7, A8	Not Decorat
- Downlink PDSCH information	15.45	Not Present
Downlink information common for all radio links	A5, A6,	Not Present
	A7, A8	
Downlink information common for all radio links	A1,A2, A3	
- Downlink DPCH info common for all RL		
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		Not i resem
- DPC mode		O (single)
		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
<ul> <li>DL rate matching restriction information</li> </ul>		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
TI OI CAISTOTICO		Set
CHOICE SE		
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
22011		Set
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
<ul> <li>Default DPCH Offset Value</li> </ul>		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		140t i 1000lit
		0 (aingle)
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0
<ul> <li>DL rate matching restriction information</li> </ul>		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
-		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
- II OI GAISIGIIUG		
CHOICE CE		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 for each radio link list	A1,A2,A3	
-Downlink information for each radio link	, , , , ,	
-Downlink initioniation for Each fault link	Ţ	

Information Element		Value/remark
- Choice mode		FDD
- Choice mode - Primary CPICH info		FUU
		Dof to the Default cotting in TS24 109 clause
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
DDCCLL with CHO DCLL info		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
		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>		Not Present
- SCCPCH information for FACH		Not Present
Downlink information for each radio 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
, o		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
- SSDT Cell Identity		Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH		Not Present
- Downlink information for each radio link	A5, A7, A8	
- Choice mode	1.5,711,710	FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
Triniary solutioning code		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH with SHO DCH mild - PDSCH code mapping		Not Present
- PDSCH code mapping - Downlink DPCH info for each RL		Not Present
		•
- SCCPCH information for FACH	100	Not Present
- Downlink information for each radio link	A6	Not Present

Condition	Explanation
A1	This IE need for "Non speech in CS"
A2	This IE need for "Speech in CS"
A3	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"
A7	This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"
A8	This IE need for "Speech to CELL_FACH from CELL_DCH in CS"

## Contents of RADIO BEARER RELEASE COMPLETE message: AM

Message Type	
RRC transaction identifier	Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.
Integrity check info	
- 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 behaviour, 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-RNTÏ	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 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	0000 0000 00045
- SRNC identity	0000 0000 0001B
- S-RNTI New C-RNTI	0000 0000 0000 0000 0001B
RRC State Indicator	Not present CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	3
- 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	LINA DI G
- 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 DDM: WOntions
- RLC logical channel mapping indicator	2 RBMuxOptions Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
<ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul>	RACH Not Brospet
- UL Transport channel identity - Logical channel identity	Not Present
- Logical channel identity - CHOICE RLC size list	
- CHOICE RLC SIZE IIST - RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
THE OILS ITHOX	13.6 kbps signalling radio bearer)
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
- DL DCH Transport channel identity	Not Present
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	AM DI C
CHOICE Libling DLC mode	AM RLC
- CHOICE Uplink RLC mode	
- Transmission RLC discard	
<ul><li>Transmission RLC discard</li><li>SDU discard mode</li></ul>	No discard
<ul><li>Transmission RLC discard</li><li>SDU discard mode</li><li>MAX_DAT</li></ul>	No discard 15
- Transmission RLC discard - SDU discard mode	No discard

Information Element	Value/remark
- Polling info	V alue/relilark
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic - CHOICE Downlink RLC mode	Not Present
- In-sequence delivery	AM RLC TRUE
- Receiving window size	32
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	a PDM Co. ii
- Information for each multiplexing option	2 RBMuxOptions
RLC logical channel mapping indicator     Number of RLC logical channels	Not Present
- 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	Net Broom
- DL DSCH Transport channel identity - Logical channel identity	Not Present
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
MAC Is sized about a localistic.	13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
Downlink RLC logical channel info     Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	AM DLC
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard - SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	32
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU - Last transmission PDU poll	1  TRUE
- Last transmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
. = =	•

Information Element	Value/remark
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	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 RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
<ul> <li>Logical channel identity</li> </ul>	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	1
Number of RLC logical channels     Downlink transport channel type	DCH
- DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
<ul> <li>Uplink transport channel type</li> </ul>	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list - RLC size index	Explicit List According to TS34.108 clause 6.10.2.4.1.3 (standalone
- RLC Size index	13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3 (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	Not i resent
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	32
- Timer_RST - Max_RST	500
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99 Net Broomt
- 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	Not Present
- RB mapping info	Į į

Information Element	Value/remark
- Information for each multiplexing option	2 RBMuxOptions
<ul> <li>RLC logical channel mapping indicator</li> <li>Number of RLC logical channels</li> </ul>	Not Present
Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured
<ul> <li>MAC logical channel priority</li> </ul>	4
<ul> <li>Downlink RLC logical channel info</li> </ul>	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	Not Present
<ul> <li>DL DSCH Transport channel identity</li> <li>Logical channel identity</li> </ul>	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
<ul> <li>Logical channel identity</li> </ul>	4
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
MAC logical channel priority	13.6 kbps signalling radio bearer)
<ul> <li>MAC logical channel priority</li> <li>Downlink RLC logical channel info</li> </ul>	4
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	N (B)
- PRACH TFCS	Not Present FDD
- CHOICE Mode - TFC subset	Nor Present
- UL DCH TFCS	Not i resent
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
<ul> <li>CHOICE TFCS representation</li> </ul>	Addition
- TFCS complete reconfigure	
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to TS 34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio
	bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	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	(Not Present if the above is set to Computed Gain Factors)
- Gain factor isu	(Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	Dedicated transport shappels
<ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul>	Dedicated transport channels
- RLC size	According to TS 34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- Number of TBs and TTI lists	(This IE is repeated for TFI number)
- Transmission Time Interval	According to TS 34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)

#### Information Element Value/remark - Number of Transport blocks According to TS 34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) 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 -6dB - PC Preamble 1 frame - SRB delay 7 frames - Power Control Algorithm Algorithm1 - TPC step size 1dB - Scrambling code type Long - Scrambling code number 0 (0 to 16777215) - Number of DPDCH Not Present(1) - Spreading factor According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - TFCI existence kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Number of FBI bit kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) - Puncturing Limit kbps signalling radio bearer) Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication Initialise - CFN-targetSFN frame offset Not Present - CHOICE mode FDD - Downlink DPCH power control information - DPC mode 0 (single) - Power offset P Pilot-DPDCH - DL rate matching restriction information Not Present According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - Spreading factor kbps signalling radio bearer) - Fixed or Flexible Position According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 - TFCI existence kbps signalling radio bearer) - CHOICE SF According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6) kbps signalling radio bearer) - DPCH compressed mode info Not Present - TX Diversity mode None Not Present - SSDT information

Information Element	Value/remark
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
<ul> <li>Primary scrambling code</li> </ul>	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
<ul> <li>Downlink DPCH info for each RL</li> </ul>	
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>	Primary CPICH may be used
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
<ul> <li>DL channelisation code</li> </ul>	
<ul> <li>Secondary scrambling code</li> </ul>	1
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Code number	0
<ul> <li>Scrambling code change</li> </ul>	Not Present
- TPC combination index	0
- SSDT Cell Identity	Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>	Not Present
- SCCPCH information for FACH	Not Present

## Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_FACH)

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in
	received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present (Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC state indicator	CELL_FACH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not present
- SDU discard mode	Not present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	DCH
- UL Transport channel identity	5
<ul> <li>Logical channel identity</li> </ul>	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
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
<ul> <li>UL Transport channel identity</li> </ul>	Not Present

Information Element	Value/remark
- Logical channel identity	1
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	32
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	32
- Downlink RLC status info	000
- Timer_status_prohibit	200
- Timer_EPC	Not Present
<ul><li>- Missing PDU indicator</li><li>- Timer_STATUS_periodic</li></ul>	TRUE Not Present
- RB mapping info	Not Flesent
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
<ul> <li>Uplink transport channel type</li> </ul>	RACH
<ul> <li>UL Transport channel identity</li> </ul>	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	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	(AM DCCH for NAS, DT High priority)
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)

Information Element	Value/remark
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	32
- Timer_RST	500
- Max_RST	1
- Polling info	
<ul><li>- Timer_poll_prohibit</li></ul>	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE 99
- Poll_Windows - Timer_poll_periodic	Not Present
- Timer_poir_periodic - CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	32
- Downlink RLC status info	<del>-</del>
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	DCH
- UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	4
<ul> <li>Number of downlink RLC logical channels</li> <li>Downlink transport channel type</li> </ul>	1 DCH
- DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL DCH Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
DL DSCH Transport channel identity     Logical channel identity	Not Present 3
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	32
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200

Information Element	Value/remark
- Timer_poll	200
- rimer_poil - Poil_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	
<ul><li>- Timer_status_prohibit</li></ul>	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity - CHOICE RLC size list	4 Configured
	Configured 4
- MAC logical channel priority	4
Downlink RLC logical channel info     Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.4.1
<ul> <li>MAC logical channel priority</li> </ul>	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 UL Transport channel information for all transport	4
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	Addition
- TFCS complete reconfigure	
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to
	TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps
0.750	signalling radio bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone
Devices offert information	13.6 kbps signalling radio bearer)
- Power offset information	Computed Coin Factors (The last TEC is set to Circalled
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled Gain Factors)
- Gain factor ßc	11 (below 64 kbps)
- Gaiii iactoi isc	9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain
	Factors)

Information Element	Value/remark
- 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 when the IE "RRC state indicator" is set to "CELL_FACH", need is MP to align with ASN.1"
<ul> <li>Added or Reconfigured UL TrCH information</li> </ul>	
<ul> <li>Uplink transport channel type</li> </ul>	DCH
<ul> <li>UL Transport channel identity</li> <li>TFS</li> </ul>	5
<ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul>	Delicated transport channels
- RLC Size	Value 16 results in an RLC size of 144 bits:
	OctetModeType1 ((8*sizeType1)+16).
- Number of TBs and TTI List	List with single entry
- Transmission Time Interval	Not Present
- Number of Transport blocks	0
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	40 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	160
- CRC size	16
DL Transport channel information common for all transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "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
<ul> <li>Uplink Transport channel type</li> </ul>	DCH
- UL TrCH identity	5
- DCH quality target	Not Present
Frequency info	Not present
Maximum allowed UL TX power	Not present
CHOICE channel requirement	Not Present
Downlink information common for all radio links	Not Present
Downlink information for each radio link list	Not present

# Contents of RRC CONNECTION SETUP COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the
	value of the same IE transmitted in the downlink RRC
	CONNECTION SETUP message.
START list	Not checked
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of RRC STATUS message: AM

Information Element	Value/remark
Message Type	
Integrity check info	
- 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	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	Set to MAC-I value computed by the SS. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
<ul> <li>Ciphering algorithm capability</li> </ul>	
- UEA0	If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.
- UEA1	If the UE has indicated support for ciphering algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.
- Spare	Spare 2-15 = FALSE
<ul> <li>Integrity protection algorithm capability</li> <li>UIA1</li> </ul>	0000000000000010B (UIA1) TRUE
- Spare	Spare 0 and Spare 2-15 = FALSE
Ciphering mode info	This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command - Ciphering algorithm	Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.
- Ciphering activation time for DPCH	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	Otari
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number CN domain identity	SS selects an arbitrary 32 bits number for FRESH CS or PS
UE system specific security capability	Not Checked
OF System shering security cahanilla	LAOT OLIEOVER

## Contents of SECURITY MODE 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 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
	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

Information Element	Condition	Value/remark
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		
- CHOICE TFCI signalling		Normal
- TFCI Field 1 information		
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure information		
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from TS34.108
		clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
		Parameter Set
- CTFC		Reference to TS34.108 clause 6.10.2.4
		Parameter Set
- Power offset information		
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to
		Signalled Gain Factors)
- Gain factor βc		11 (below 64 kbps)
		9 (higher than 64 kbps)
		(Not Present if the CHOICE Gain Factors is set
0:110		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		0
- CHOICE mode		FDD Not Propert
- Power offset P p-m	1 4 4 4 4 4 5	Not Present
Added or Reconfigured UL TrCH information	A1, A2, A5,	Not Present
	A6	

Information Element	Condition	Value/remark
Added or Reconfigured UL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Uplink transport channel type	/	DCH
- UL Transport channel identity		5
- TFS		
<ul> <li>CHOICE Transport channel type</li> </ul>		Dedicated transport channels
- Dynamic Transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list		All
<ul> <li>Semi-static Transport Format information</li> <li>Transmission time interval</li> </ul>		Deference to TC24 100 clause 6 10 December
		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		Deference to TCO4 400 eleves C 40 Devemptor
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
- CRC size		Set Reference to TS34.108 clause 6.10 Parameter
		Set
Added or Reconfigured UL TrCH information	A3	(DCH for DTCH)
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		Dedicated transport channels
- CHOICE Transport channel type     - Dynamic Transport format information		Dedicated transport channels
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
Number of TDs and TTLL ist		Set
Number of TBs and TTI List     Transmission Time Interval		(This IE is repeated for TFI number.)  Not Present
- Transmission Time Interval - Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
·		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		Deference to TC24 400 eleves C 40 Devementor
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
County Nato		

Information Element	Condition	Value/remark
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
CHOICE mode	A1,A2,A3,	FDD
	A4,A5,A6	
- CPCH set ID		Not Present
- Added or Reconfigured TrCH		Not Present
information for DRAC list	1110	N ( D
DL Transport channel information common for all	A1, A2,	Not Present
transport channel	A5,A6	
DL Transport channel information common for all transport channel	A3,A4	
- SCCPCH TFCS		Not Present
- CHOICE mode		FDD
- CHOICE DL parameters		Explicit
- DL DCH TFCS		Explicit
- CHOICE TFCI Signalling		Normal
- TFCI Field 1 Information		
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure		
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from clause
		TS34.108 clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
- CTFC		Reference to TS34.108 clause 6.10.2.4
<b>5</b> "		Parameter Set
- Power offset information		Not Present
Added or Reconfigured DL TrCH information	A1, A2, A5, A6	Not Present

Information Element	Condition	Value/remark
Added or Reconfigured DL TrCH information	A4	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Downlink transport channel type	*	DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
<ul> <li>Uplink transport channel type</li> </ul>		DCH
- UL TrCH identity		5
- DCH quality target		N (B)
- BLER Quality value		Not Present
Downlink transport channel type     DL Transport channel identity		DCH 6
- CHOICE DL parameters		Explicit
- TFS		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		-6dB
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
- Scrambling code type		Long
- Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
TEOL anistana		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
Number of CDI hit		Set
- Number of FBI bit		Reference to TS34.108 clause 6.10 Parameter
Donastania a Lincit		Set
- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter
OUIOIOE M. I		Set
CHOICE Mode	A1,A2,A3,	FDD
Douglink DDCCI Linformation	A4,A5,A6	Not Drocont
- Downlink PDSCH information	A.F. A.C.	Not Present
Downlink information common for all radio links	A5, A6	Not Present
Downlink information common for all radio links	A1, A2, A3	
- Downlink DPCH info common for all RL		
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		0 (-i1-)
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0 Not Brosset
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
Fixed or Flexible Desiries		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter Set
TECL swisters as		
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
- CHOICE SF		Set
DDCH compressed mode info		
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value	Λ.4	Not Present
Downlink information common for all radio links	A4	
- Downlink DPCH info common for all RL		Initialiae
- Timing indicator		Initialise
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		( (cingle)
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P <sub>Pilot-DPDCH</sub>		0 Not Brosont
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
Fixed or Flevible Desition		Set
- Fixed or Flexible Position		Reference to TS34.108 clause 6.10 Parameter
TECL evictories		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
CHOICE SE		Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
DDCH communicated and design		Set Net Broomt
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step of 512

Information Element	Condition	Value/remark
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
Trimary coramoung 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
- Dr Gri Iraine onset		currently stored in SS) mod 38400
Dower offeet D		0
- Power offset P <sub>Pilot-DPDCH</sub>		
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		4
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- Code number		0
- Scrambling code change		No change
- TPC combination index		0
- SSDT Cell Identity		Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>		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 <sub>Pilot-DPDCH</sub>		0
- Secondary CPICH info		Not Present
- DL channelisation code		
- Secondary scrambling code		4
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
oproduming radios		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	110t / 1000lit
- Downlink information for each radio link - Choice mode	73	FDD
		טט ו
- Primary CPICH info		Pof to the Default cetting in TS24 100 alones
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
DDCCU with CHO DCU info		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	<b>.</b>	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
<ul> <li>Allowed Transport format combination</li> </ul>	0 (The TFC is constructed from ALL TF0)
Activation time for TFC subset	Not Present
TFC Control duration	Not Present

#### Contents of UE CAPABILITY ENQUIRY message: AM or UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	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
<ul> <li>Access stratum release indicator</li> <li>PDCP Capability</li> <li>RLC Capability</li> <li>Transport channel capability</li> <li>RF Capability FDD</li> <li>RF Capability TDD</li> <li>Physical channel capability</li> <li>UE multi-mode/multi-RAT capability</li> <li>Security Capability</li> <li>UE positioning Capability</li> </ul>	
Measurement capability UE radio access capability extension	Value will be checked. Stated capability must be
, ,	compatible with 34.123-2 (ICS statements) and the user settings
UE system specific capability	Not Checked

#### Contents of UE CAPABILITY INFORMATION CONFIRM message: UM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Set to the same value as received in the UE CAPABILITY INFORMATON message.
Integrity check info	
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE. The first/ leftmost bit of the bit string contains the most significant bit of the MAC-I.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.

## Contents of URA UPDATE message: TM

Information Element	Value/remark
Message Type	
U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Checked to see if it is absent
Integrity check info	
<ul> <li>Message authentication code</li> </ul>	This IE is checked to see if it is present. The value is
	compared against the XMAC-I value computed by SS.
	The first/ leftmost bit of the bit string contains the most
	significant bit of the MAC-I.
<ul> <li>RRC Message sequence number</li> </ul>	This IE is checked to see if it is present. The value is
	used by SS to compute the XMAC-I value.
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 CN information info	1800 seconds
	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 Message Contents for Signalling (TDD)

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	0
Integrity check info	
- 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	
<ul> <li>CHOICE Used paging identity</li> </ul>	CN identity
- Paging cause	Terminating Streaming Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of PAGING TYPE 1 message: TM (Packet in PS)

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
<ul> <li>CHOICE Used paging identity</li> </ul>	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS) (3.84 Mcps TDD option)

Information Element	Value/remark
Message Type	Yalao//Giliai K
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 Ciphering mode info	Not Present The presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If ciphering is indicated to be active, this
	IE present with the values of the sub IEs as stated below.
	Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use one of the supported ciphering algorithms
- Ciphering activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Radio bearer downlink ciphering activation time	Not Present
info Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	(256+CFN-(CFN WOD 8 + 8))  WOD 256   Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup list RAB information for setup list	Not Present
- RAB information for setup	
- RAB info	
- RAB identity	0000 0001B
	The first/ leftmost bit of the bit string contains the most
011	significant bit of the RAB identity.
- CN domain identity	CS domain
<ul> <li>NAS Synchronization Indicator</li> <li>Re-establishment timer</li> </ul>	Not Present UseT314
- RB information to setup	3001011
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present FALSE
Segmentation indication     CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	TALGE
- 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     DL DSCH Transport channel identity	6 Not Present
- Logical channel identity	Not Present
- RB identity	11
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE

Information Element	Value/remark
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	TALOE
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>	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	
<ul> <li>Information for each multiplexing option</li> </ul>	
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
<ul> <li>UL Transport channel identity</li> <li>Logical channel identity</li> </ul>	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
<ul> <li>DL DCH Transport channel identity</li> </ul>	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.)
<ul> <li>Allowed Transport Format combination</li> </ul>	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 - Number of Transport blocks Reference to TS34.108 clause 6.10 Parameter Set - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6.10 Parameter Set - Type of channel coding Reference to TS34.108 clause 6.10 Parameter Set - Coding Rate Reference to TS34.108 clause 6.10 Parameter Set - Rate matching attribute Reference to TS34.108 clause 6.10 Parameter Set - CRC size Reference to TS34.108 clause 6.10 Parameter Set - Uplink transport channel type DCH - UL Transport channel identity - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport format information - RLC Size Reference to TS34.108 clause 6.10 Parameter Set - Number of TBs and TTI List (This IE is repeated for TFI number.) - Transmission Time Interval Not Present - Number of Transport blocks Reference to TS34.108 clause 6.10 Parameter Set - Transmission Time Interval Reference to TS34.108 clause 6.10 Parameter Set - Number of Transport blocks (This IE is repeated for TFI number.) - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6.10 Parameter Set - Type of channel coding Reference to TS34.108 clause 6.10 Parameter Set - Coding Rate Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set - Rate matching attribute - CRC size Reference to TS34.108 clause 6.10 Parameter Set - Uplink transport channel type DCH - UL Transport channel identity 3 - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport format information - RLC Size Reference to TS34.108 clause 6.10 Parameter Set - Number of TBs and TTI List (This IE is repeated for TFI number.) - Transmission Time Interval Not Present - Number of Transport blocks Reference to TS34.108 clause 6.10 Parameter Set - Transmission Time Interval Reference to TS34.108 clause 6.10 Parameter Set - Number of Transport blocks (This IE is repeated for TFI number.) - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval Reference to TS34.108 clause 6.10 Parameter Set - Type of channel coding Reference to TS34.108 clause 6.10 Parameter Set - Coding Rate Reference to TS34.108 clause 6.10 Parameter Set - Rate matching attribute Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set - CRC size CHOICE mode TDD (no data) DL Transport channel information common for all transport channel - SCCPCH TFCS Not Present - CHOICE mode TDD - CHOICE DL parameters Same as UL Deleted TrCH information list Not Present Added or Reconfigured TrCH information list 3 DCHs Added or Reconfigured DL TrCH information - Downlink transport channel type DCH - DL Transport channel identity - CHOICE DL parameters Same as UL - Uplink transport channel type DCH - UL TrCH identity - DCH quality target - BLER Quality value -6.3 - Downlink transport channel type DCH - DL Transport channel identity - 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	DCH
- UL TrCH identity	3
- DCH quality target	
- BLER Quality value	Not Present
Frequency info	1.000.11
- UARFCN Nt)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	30dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
- CHOICE mode	TDD
- UL Target SIR	Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info	Individually signalled
- CHOICE TDD option	3.84 Mcps
- Individual timeslot interference info	'
- DPCH Constant Value	
- CHOICE mode	TDD
- Uplink Timing Advance Control	Not Present
- UL CCTrCH List	
- TFCS ld	1
- Time info	
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration	infinite
- Common timeslot info	
- 2 <sup>nd</sup> interleaving mode	Reference to TS34.108 clause 6 Parameter Set.
- TFCI coding	Reference to TS34.108 clause 6 Parameter set.
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter set.
Panatition Pariod	Reference to TS34.108 clause 6 Parameter set.
- Repetition Period - Repetition Length	Reference to TS34.108 clause 6 Parameter set.
- Repetition Length - Uplink DPCH timeslots and code	Reference to 1334. 100 clause o Parameter set.
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has unassigned
Timesiot number	codes.
- TFCI existence	TRUE
- Midamble shift and burst type	1102
- CHOICE TDD option	3.84 Mcps
- Midamble allocation mode	Default
<ul> <li>Midamble configuration burst type 1</li> </ul>	16
and 3	
- CHOICE TDD option	(no data)
- First timeslot channelisation codes	Repeated (1,2) for each channelisation code assigned in
	the slot to meet the needs of TS34.108 clause 6
	Parameter Set.
- Channelisation code	(i/SF) where i denotes an unassigned code
	matching the SF specified in TS34.108 clause 6
	Parameter Set.
- CHOICE more timeslots	The presence of this IE depends upon the number of
	resources specified in TS34.108 section 6 and the
	number of slots in which they are being assigned.
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
<ul> <li>Downlink DPCH power control information</li> </ul>	

Information Element	Value/remark
- CHOICE mode	TDD
- TPC step size	1 dB
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps (no data)
- Default DPCH offset value	0 (no data)
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	100
- CHOICE TDD option	3.84 Mcps
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	0
- Downlink DPCH info for each RL	
	TDD
- CHOICE mode	טטו
- DL CCTrCH List	
- TFCS ID	1
- Time info	(256 , CEN (CEN mod 8 , 8))
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
- Common timeslot info	B ( T004.400
- 2nd interleaving mode	Reference to TS34.108
- TFCI coding	TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1
- Repetition length	Empty
- Downlink DPCH timeslots and codes	
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has
TEOL	unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	0.0444
- CHOICE TDD option	3.84 Mcps
-CHOICE Burst Type	
-Type 1	Default
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	
- First timeslot channelisation codes	440=
- First channelisation code	(i/SF) where i is the lowest numbered code
	that is being assigned and SF is specified in
Last share P. C. L.	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
OHOLOE II LI	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
LII. 00T 011 TT 0 11 1	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 (Speech in CS) (1.28 Mcps TDD option)

Information Element	Value/remark
Message Type	Yalao//Giliai K
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 Ciphering mode info	Not Present The presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If ciphering is indicated to be active, this
	IE present with the values of the sub IEs as stated below.
	Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use one of the supported ciphering algorithms
- Ciphering activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Radio bearer downlink ciphering activation time	Not Present
info Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	(256+CFN-(CFN WOD 8 + 8))  WOD 256   Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup list RAB information for setup list	Not Present
- RAB information for setup	
- RAB info	
- RAB identity	0000 0001B
	The first/ leftmost bit of the bit string contains the most
011	significant bit of the RAB identity.
- CN domain identity	CS domain
<ul> <li>NAS Synchronization Indicator</li> <li>Re-establishment timer</li> </ul>	Not Present UseT314
- RB information to setup	3001011
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present FALSE
Segmentation indication     CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	TALGE
- 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     DL DSCH Transport channel identity	6 Not Present
- Logical channel identity	Not Present
- RB identity	11
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE

Information Element	Value/remark
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	TALOE
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	DCH
- UL Transport channel identity	2
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
Downlink RLC logical channel info     Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	7
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	12
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
Segmentation indication     CHOICE Downlink RLC mode	FALSE TM RLC
- Segmentation indication	FALSE
- RB mapping info	TALOL
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
<ul> <li>UL Transport channel identity</li> </ul>	3
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	6
- Downlink RLC logical channel info	4
<ul> <li>Number of downlink RLC logical channels</li> <li>Downlink transport channel type</li> </ul>	1 DCH
- DL DCH Transport channel identity	8
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
-Individual UL CCTrCH information	(This IC is reposted for TCC remarks:
- TFCS ID - Allowed Transport Format combination	(This IE is repeated for TFC number.) 0 to MaxTFCvalue-1 (MaxTFCValue is refer to
- Allowed Transport Format Combination	TS34.108 clause 6 Parameter Set.)
- 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 3 DCHs
Added or Reconfigured TrCH information list - Added or Reconfigured UL TrCH information	J DOI IS
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels

Information Element	Value/remark
<ul> <li>Dynamic Transport format information</li> </ul>	
- RLC Size	Reference to TS34.108 clause 6 Parameter Set
<ul> <li>Number of TBs and TTI List</li> </ul>	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6 Parameter Set
- CRC size	Reference to TS34.108 clause 6 Parameter Set
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	Dedicated transport charmers
- RLC Size	Reference to TS34.108 clause 6 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6 Parameter Set
- Transmission Time Interval	Reference to TS34.108 clause 6 Parameter Set
- Number of Transport blocks	(This IE is repeated for TFI number.)
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6 Parameter Set
- CRC size	Reference to TS34.108 clause 6 Parameter Set
<ul> <li>Uplink transport channel type</li> </ul>	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 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6 Parameter Set
- Transmission Time Interval	Reference to TS34.108 clause 6 Parameter Set
- Number of Transport blocks	(This IE is repeated for TFI number.)
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	,
- Transmission time interval	Reference to TS34.108 clause 6 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6 Parameter Set
- CRC size	Reference to TS34.108 clause 6 Parameter Set
CHOICE mode	TDD (no data)
DL Transport channel information common for all	(no data)
transport channel	Not Procent
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD Same as III
- 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	BOLL
- 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 Cardon Simanic
- UL TrCH identity	2
- DCH quality target	
- BLER Quality value	Not Present
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL Transport channel identity</li> </ul>	8
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	3
- DCH quality target	Not Droppet
- 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	Spirit Bi Girinio
- CHOICE mode	TDD
- UL Target SIR	Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info	Individually signalled
- CHOICE TDD option	1.28 Mcps
- TPC step size	1 dB
- Primary CCPCH Tx Power	Not Present
- CHOICE mode	TDD
<ul> <li>Uplink Timing Advance Control</li> </ul>	Not Present
- UL CCTrCH List	
- TFCS Id	1
- Time info	(050, 051) (051) 1405 0 0 0) 1405 050
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration	infinite
<ul> <li>Common timeslot info</li> <li>2<sup>nd</sup> interleaving mode</li> </ul>	Reference to TS34.108 clause 6 Parameter Set.
- Z Thereaving mode - TFCI coding	Reference to TS34.108 clause 6 Parameter Set.
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter set.
- I dilotaling Limit	Therefore to 1004. 100 clause of arameter set.
- Repetition Period	Reference to TS34.108 clause 6 Parameter set.
- Repetition Length	Reference to TS34.108 clause 6 Parameter set.
<ul> <li>Uplink DPCH timeslots and code</li> </ul>	
<ul> <li>First individual timeslot info</li> </ul>	The number of an uplink timeslot that has unassigned
<del>-</del> :	codes.
- Timeslot number	TOUE
- TFCI existence	TRUE
- Midamble shift and burst type	1.29 Mana
<ul> <li>CHOICE TDD option</li> <li>Midamble allocation mode</li> </ul>	1.28 Mcps Default
Midamble configuration	16
- CHOICE TDD option	1.28 Mcps TDD
- Modulation	QPSK
- SS-TPC Symbols	1
- First timeslot channelisation codes	Repeated (1,2) for each channelisation code assigned in
	the slot to meet the needs of TS34.108 clause 6
	Parameter Set.
- Channelisation code	(i/SF) where i denotes an unassigned code matching the
	SF specified in TS34.108 clause 6 Parameter Set.
- CHOICE more timeslots	The presence of this IE depends upon the number of
	resources specified in TS34.108 section 6 and the
CHOICE Mada	number of slots in which they are being assigned.
CHOICE Mode	TDD
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	Maintain
<ul> <li>Timing indicator</li> <li>CFN-targetSFN frame offset</li> </ul>	Not Present
- Downlink DPCH power control information	I VOCT TESETIC
Downlink Dr Ort power control information	l

Information Element	Value/remark
- CHOICE mode	TDD
- TPC step size	1 dB
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps
- TSTD indicator	TRUE
- Default DPCH offset value	0
- Downlink information for each radio link	O I
- Choice mode	TDD
- Primary CCPCH info	וסטו
- CHOICE TDD option	1.28 Mcps
- TSTD indicator	TRUE
- Cell parameters ID	0
- Block STTD indicator	FALSE
- Downlink DPCH info for each RL	FALSE
	TDD
- CHOICE mode - DL CCTrCH List	טטו
- TFCS ID	1
- Time info	
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Activation time	(250+CFN-(CFN 11100 8 + 8))11100 258
- Common timeslot info	minite
- 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	Linpty
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has
- Timesiot number	unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	INOL
- CHOICE TDD option	1.28 Mcps
-Midamble Allocation Mode	Default
- Midamble configuration	16
- CHOICE TDD option	1.28 Mcps
- Modulation	QPSK
- SS-TPC Symbols	1
- First timeslot channelisation codes	
- First channelisation code	(i/SF) where i is the lowest numbered code
	that is being assigned and SF is specified in
	TS34.108 clause 6 Parameter Set
- Last channelisation code	(j/SF) where j is the highest numbered code
	that is being assigned in the slot.
- Bitmap	Bitmap of the codes that are being assigned in
·	the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether
	the requirements of TS34.108 clause 6
	Parameter Set could be met by the codes that
	have been assigned in the first timeslot
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present
COOL OLI IIIIOIIII diiloi I / IOI I	Hotel 1000Ht

Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL\_DCH from CELL\_DCH in PS) (3.84 Mcps TDD option)

Information Element	Value/remark
Message Type	
RRC transaction identifier	0
Integrity check info	
- 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
<ul> <li>Ciphering activation time for DPCH</li> </ul>	(256+CFN-(CFN MOD 8 + 8))MOD 256
<ul> <li>Radio bearer downlink ciphering activation time info</li> </ul>	Not Present
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present

Information Element	Value/remark
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup	Not Present
RAB information for setup	Not Flesent
- RAB info	
	0000 0101B
- RAB identity	
	The first/ leftmost bit of the bit string contains the most
CN domain identity	significant bit of the RAB identity. PS domain
- CN domain identity - NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
	0561314
- RB information to setup	20
- RB identity - PDCP info	Not Present
	RLC info
- CHOICE RLC info type	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	No Diggard
- 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	000
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	O DDM Oti
- 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	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	8
- Downlink RLC logical channel info	4
Number of downlink RLC logical channels     Downlink transport shapped type	1 DCH
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6 Not Present
- 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     Inlink transport shapped type	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     Downlink transport shapped type	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH

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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	Not Brosset
- PRACH TFCS	Not Present
- CHOICE mode	TDD
-Individual UL CCTrCH information	(This IF is reported for TFC number)
- TFCS ID	(This IE is repeated for TFC number.)
<ul> <li>Allowed Transport Format combination</li> </ul>	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
DD A CILITECC	TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
<ul> <li>TFCS complete reconfigure information</li> <li>CHOICE TFCS Size</li> </ul>	Number of used bits must be enough to sever
- Choice Tros 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
CTCC information	Not Present
- CTFC information - 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	DCH
- Uplink transport channel type	DCH
<ul> <li>- UL Transport channel identity</li> <li>- TFS</li> </ul>	1
	Dedicated transport shappels
<ul> <li>CHOICE Transport channel type</li> <li>Dynamic Transport format information</li> </ul>	Dedicated transport channels
- RLC Size	Reference to TS34.108 clause 6.10 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	\text{\tin}\ext{\ti}}\\ \titt{\text{\text{\text{\texi}\tint{\text{\texit{\text{\text{\texi}\titt{\text{\texi}\tint{\text{\texi}\tilit{\texitt{\texit{\text{\ti}\tinttitt{\texi}\tilit{\tii}}\texititt{\texitit{\texiti
- 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	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- Individual DL CCTrCH information	
- DL TFCS Identity	
- TFCS Id	4
	1
- Shared Channel Indicator	FALSE
- CHOICE DL parameters	Independent
- DL DCH TFCS	(This IE is repeated for TFC number.)
<ul> <li>CHOICE TFCI signalling</li> </ul>	Normal
<ul> <li>TFCI Field 1 information</li> </ul>	
<ul> <li>CHOICE TFCS representation</li> </ul>	Complete
- TFCS complete reconfigure	
information	
- CHOICE CTFC Size	Refer to TS34.108 clause 6.
OF IOTOL OTT O OIZE	TOTAL TO TOO HOUSE U.

Information Element	Value/remark
- CTFC information	Refer to TS34.108 clause 6.
Added or Reconfigured TrCH information list	
- Added or Reconfigured DL TrCH information	
<ul> <li>Downlink transport channel type</li> </ul>	DCH
- DL Transport channel identity	6
- CHOICE DL parameters	Explicit
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number)
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
<ul> <li>Number of TBs and TTI List</li> </ul>	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
<ul> <li>Number of Transport blocks</li> </ul>	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target	
- BLER Quality value	-6.3
Frequency info	
-CHOICE mode	TDD
- UARFCN (Nt)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	30 dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
- CHOICE mode	TDD
- UL Target SIR	Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info	Individually signalled
- CHOICE TDD option	3.84 Mcps
- Individual timeslot interference	'
info	
- Individual timeslot interference	
	Values are used for ones less rewards
- DPCH Constant Value	Values are used for open loop power control,
	section 8 in TS 25.331
- CHOICE mode	TDD

Information Element	Value/remark
- Uplink Timing Advance Control	Not Present
- UL CCTrCH List	1.661.1.6661.1
- TFCS ld	1
- Time info	(
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration - Common timeslot info	Infinite
- 2nd interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has
- TFCI existence	unassigned codes. TRUE
- Midamble shift and burst type	TROE
- CHOICE TDD option	3.84 Mcps
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3 - First timeslot channelisation codes	Panastad (1.2) for each channelingties and assists of its
- First timeslot channelisation codes	Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6
	Parameter Set.
- Channelisation code	(i/SF) where i denotes an unassigned code
	matching the SF specified in TS34.108 clause
	6 Parameter Set.
- CHOICE more timeslots	The presence of this IE depends upon the
	number of resources specified in TS34.108
	section 6 and the number of slots in which they
Downlink information common for all radio links	are being assigned.
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD
- CHOICE TDD option - Default DPCH Offset Value	3.84 Mcps (no data) Not Present
Downlink information for each radio link list	Not Flesent
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID - SCTD indicator	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 - Common timeslot info	infinite
- Common timeslot into - 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	The number of a described time solet that have
- Timeslot number	The number of a downlink timeslot that has
	unassigned codes.

Information Element	Value/remark
- TFCI existence	TRUE
<ul> <li>Midamble shift and burst type</li> </ul>	
- CHOICE TDD option	3.84 Mcps
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	
- First timeslot channelisation codes	(i/CC) where i is the lowest remakered 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 Chamilensation Code	that is being assigned in the slot.
- Bitmap	Bitmap of the codes that are being assigned in
- Бішіар	the slot.
	the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether
	the requirements of TS34.108 clause 6
	Parameter Set could be met by the codes that
	have been assigned in the first timeslot
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present
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Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL\_DCH from CELL\_DCH in PS) (1.28 Mcps TDD option)

Information Element	Value/remark
Message Type	
RRC transaction identifier	
Integrity check info	
- 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.
0.1.	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	Not Present
New DSCH-RNTI RRC State indicator	Not Present 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 0404B
- RAB identity	0000 0101B The first/ leftmost bit of the bit string contains the most
	significant bit of the RAB identity.
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity - PDCP info	20 Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW - Transmission window size	8
- Transmission window size - Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_SDU - Last transmission PDU poll	1   TRUE
- Last transmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	200
- Timer_status_prohibit - Timer_EPC	200
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	

Information Element	Value/remark
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
<ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul>	DCH 1
- OE Transport channel identity - Logical channel identity	Not Present
- CHOICE RLC size list	
- MAC logical channel priority	Configured 8
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	RACH
- UL 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	1 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	TDD
-Individual UL CCTrCH information	
- TFCS ID	(This IE is repeated for TFC number.)
<ul> <li>Allowed Transport Format combination</li> </ul>	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
- PRACH TFCS	TS34.108 clause 6 Parameter Set.)
- 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
3.16.62 65 6.25	all combinations of CTFC from clauses 6.
	Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
<ul> <li>Individual UL CCTrCH information</li> </ul>	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity - TFS	1
	Dodicated transport channels
- CHOICE Transport channel type - Dynamic Transport format information	Dedicated transport channels
- RLC Size	Reference to TS34.108 clause 6 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
<ul> <li>Transmission time interval</li> </ul>	Reference to TS34.108 clause 6 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6 Parameter Set
- CRC size	Reference to TS34.108 clause 6 Parameter Set

Information Element	Value/remark
CHOICE mode	TDD (no data)
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- Individual DL CCTrCH information	
- DL TFCS Identity	
- TFCS ld	1
- Shared Channel Indicator	FALSE
- CHOICE DL parameters	
- DL DCH TFCS	Independent (This IE is reported for TEC number)
- CHOICE TFCI signalling	(This IE is repeated for TFC number.) Normal
- TFCI Field 1 information	Normal
	Complete
- CHOICE TFCS representation	Complete
- TFCS complete reconfigure information	D-ft- T004 400 -l 0
- CHOICE CTFC Size	Refer to TS34.108 clause 6.
- CTFC information	Refer to TS34.108 clause 6.
Added or Reconfigured TrCH information list	
- Added or Reconfigured DL TrCH information	BOLL
- Downlink transport channel type	DCH
- DL Transport channel identity	6
- CHOICE DL parameters	Explicit
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number)
- RLC Size	Reference to TS34.108 clause 6 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6 Parameter Set
- CHOICE Logical Channel list	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6 Parameter Set
- CRC size	Reference to TS34.108 clause 6 Parameter Set
- DCH quality target	
- BLER Quality value	-6.3
Frequency info	
-CHOICE mode	TDD
- UARFCN (Nt)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	30 dBm
CHOICE channel requirement	Uplink DPCH info
<ul> <li>Uplink DPCH power control info</li> </ul>	
- CHOICE mode	TDD
- UL Target SIR	Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info	Individually signaled
- CHOICE TDD option	1.28 Mcps
- TPC step size	1 dB
- Primary CCPCH Tx Power	Not Present
- CHOICE mode	TDD

Information Element	Value/remark
- Uplink Timing Advance Control	Not Present
- UL CCTrCH List	
- TFCS Id	1
- Time info	
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration	Infinite
- Common timeslot info	Deference to TC24 400 eleves C Deverted Cet
- 2nd interleaving mode	Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set
- TFCI coding - Puncturing Limit	Reference to TS34.108 clause 6 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6 Parameter Set
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has
	unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
- CHOICE TDD option	1.28 Mcps
Midamble allocation mode     Midamble configuration	Default
- Midamble configuration - CHOICE TDD option	16   1.28 Mcps TDD
- Modulation	QPSK
- SS-TPC Symbols	1
- First timeslot channelisation codes	Repeated (1,2) for each channelisation code assigned in
	the slot to meet the needs of TS34.108 clause 6
	Parameter Set.
- Channelisation code	(i/SF) where i denotes an unassigned code
	matching the SF specified in TS34.108 clause
0110105	6 Parameter Set.
- CHOICE more timeslots	The presence of this IE depends upon the
	number of resources specified in TS34.108 section 6 and the number of slots in which they
	are being assigned.
Downlink information common for all radio links	are being accigned.
- 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
- TPC step size	1 dB
- CHOICE mode - CHOICE TDD option	TDD 1.28 Mcps
- TSTD indicator	TRUE
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps
- TSTD indicator - Cell parameters ID	TRUE 0
- Block STTD indicator	0   FALSE
- Downlink DPCH info for each RL	1,7,202
- 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	Deference to TS24 400
- 2nd interleaving mode - TFCI coding	Reference to TS34.108 TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1
- Repetition length	Empty

Information Element	Value/remark
<ul> <li>Downlink DPCH timeslots and codes</li> </ul>	
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has
	unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	4.00.14
-CHOICE TDD option	1.28 Mcps
-Midamble Allocation Mode	Default
- Midamble configuration	16
- CHOICE TDD option	1.28 Mcps TDD
- Modulation	QPSK
- SS-TPC Symbols	1
<ul> <li>First timeslot channelisation codes</li> </ul>	
- First channelisation code	(i/SF) where i is the lowest numbered code
	that is being assigned and SF is specified in
- Last channelisation code	TS34.108 clause 6 Parameter Set
- Last channelisation code	(j/SF) where j is the highest numbered code
- Bitmap	that is being assigned in the slot.  Bitmap of the codes that are being assigned in
- Бинар	the slot.
	the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether
	the requirements of TS34.108 clause 6
	Parameter Set could be met by the codes that
	have been assigned in the first timeslot
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present

### Contents of RADIO BEARER SETUP COMPLETE message: AM

Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.
Integrity check info	
- 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	Not checked.
CHOICE mode	TDD
COUNT-C activation time	The presence of this IE depends on the following 2
	factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the RB release procedure. Else, this IE is absent.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER RELEASE message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.
Uplink counter synchronisation info	Not checked

## Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark
Message Type	
Initial UE identity	
- CHOICE UE id type	
- IMSI (GSM-MAP)	Set to the UE's IMSI (GSM-MAP) or TMSI.
Establishment cause	To be checked against requirement if specified
Protocol error indicator	FALSE
UE Specific Behaviour Information 1 idle	This IE will not be checked by default behaviour, but in
	specific test case.
Measured results on RACH	Not checked

## 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	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
Rolmn 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) (3.84 Mcps TDD option)

Information Element	Value/remark
Message Type	Taras, Taras, T
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier Activation time	0 Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI New C-RNTI	0000 0000 0000 0000 0001B Not Present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
- UÉ radio access FDD capability update	FALSE
requirement	
- UE radio access TDD capability update	TRUE
requirement - System specific capability update requirement list	acm
Signalling RB information to setup	gsm (UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1 DCH
- Uplink transport channel type - 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     DL DCH Transport channel identity	DCH 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 Not Present
- UL Transport channel identity     - Logical channel identity	Not Present
- 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	
<ul> <li>Number of RLC logical channels</li> <li>Downlink transport channel type</li> </ul>	1   FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type - RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15

Information Element	Value/remark
- Transmission window size	129
- Transmission window size - Timer_RST	128   500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU - Last transmission PDU poll	1   TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
<ul> <li>Receiving window size</li> <li>Downlink RLC status info</li> </ul>	120
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	2 DDM::/Ortions
<ul> <li>Information for each multiplexing option</li> <li>RLC logical channel mapping indicator</li> </ul>	2 RBMuxOptions Not Present
- RLC logical channel mapping indicator     - Number of RLC logical channels	Not Present
- 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	
<ul> <li>Number of RLC logical channels</li> <li>Downlink transport channel type</li> </ul>	1 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
<ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul>	RACH Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps
	signalling radio bearer
- MAC logical channel priority	2
- Downlink RLC logical channel info	
<ul> <li>Number of RLC logical channels</li> <li>Downlink transport channel type</li> </ul>	1 FACH
- DL DCH Transport channel identity	Not Present
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not Present
- CHOICE RLC info type - RLC info	
- 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	000
- Timer_poll_prohibit - Timer_poll	200 200
- ΠΠα <u>Ι</u> ροπ	200

Life and the Florida	V. I
Information Element	Value/remark
- Poll_PDU	Not present
- Poll_SDU	1   TRUE
<ul> <li>Last transmission PDU poll</li> <li>Last retransmission PDU poll</li> </ul>	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
<ul><li>- Timer_status_prohibit</li></ul>	200
- Timer_EPC	Not Present
<ul> <li>Missing PDU indicator</li> </ul>	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	2 DDM: Ontions
- Information for each multiplexing option	2 RBMuxOptions Not Present
<ul> <li>RLC logical channel mapping indicator</li> <li>Number of RLC logical channels</li> </ul>	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
<ul> <li>Downlink RLC logical channel info</li> </ul>	
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Downlink transport channel type</li> </ul>	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
<ul> <li>Logical channel identity</li> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps
	signalling radio bearer
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> <li>DL DCH Transport channel identity</li> </ul>	FACH Not Present
- DL DCH Transport channel identity - DL DSCH Transport channel identity	Not Present 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	A
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
<ul><li>- Timer_poll_prohibit</li></ul>	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
<ul> <li>Last transmission PDU poll</li> <li>Last retransmission PDU poll</li> </ul>	TRUE TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC

	<del>,</del>
Information Element	Value/remark
- In-sequence delivery	TRUE
<ul> <li>Receiving window size</li> </ul>	128
<ul> <li>Downlink RLC status info</li> </ul>	
<ul> <li>Timer_status_prohibit</li> </ul>	200
- Timer_EPC	Not Present
<ul> <li>Missing PDU indicator</li> </ul>	TRUE
<ul><li>- Timer_STATUS_periodic</li></ul>	Not Present
- RB mapping info	
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	DCH
<ul> <li>UL Transport channel identity</li> </ul>	5
<ul> <li>Logical channel identity</li> </ul>	4
- CHOICE RLC size list	Configured
<ul> <li>MAC logical channel priority</li> </ul>	4
<ul> <li>Downlink RLC logical channel info</li> </ul>	
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>	10
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	4
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	RACH
<ul> <li>UL Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	4
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps
	signalling radio bearer
<ul> <li>MAC logical channel priority</li> </ul>	4
<ul> <li>Downlink RLC logical channel info</li> </ul>	
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Downlink transport channel type</li> </ul>	FACH
<ul> <li>DL DCH Transport channel identity</li> </ul>	Not Present
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
<ul> <li>-Individual UL CCTrCH information</li> </ul>	
- UL TFCS ID	(This IE is repeated for TFC number.)
- UL TFCS	
- TFC subset	Default value is the complete existing set of transport
	format combinations
<ul> <li>Allowed Transport Format combination</li> </ul>	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
·	TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
<ul> <li>TFCS complete reconfigure</li> </ul>	
information	
- CHOICE TFCS Size	Number of used bits must be enough to cover
	all combinations of CTFC from clauses 6.
	Refer to TS34.108 clause 6 Parameter Set
<ul> <li>CTFC information</li> </ul>	Not Present
- CHOICE mode	TDD
<ul> <li>Individual UL CCTrCH information</li> </ul>	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured UL TrCH information	
<ul> <li>Uplink transport channel type</li> </ul>	DCH
<ul> <li>UL Transport channel identity</li> </ul>	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC size	According to TS34.108 clause 6 for standalone 13.6 kbps

Information Element	Value/remark
	signalling radio bearer
- Number of TBs and TTI lists	(This IE is repeated for TFI number)
- CHOICE mode	TDD
- Transmission Time Interval	According to TS34.108 clause 6 for standalone 13.6 kbps
	signalling radio bearer
- CHOICE Logical channel list	All
<ul> <li>Semi-static Transport Format information</li> </ul>	
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
-Individual DL CCTrCH information	
- DL TFCS Identity - TFCS ID	1
- Shared Channel Indicator	
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	Samo do 62
- Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
<ul> <li>Uplink transport channel type</li> </ul>	DCH
<ul> <li>UL Transport channel identity</li> </ul>	5
-DCH quality target	
- BLER Quality target	-6.3
Frequency info	Not Present
Maximum allowed UL TX power	Not Present
HOICE channel requirement - Uplink DPCH power control info	Uplink DPCH info
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps
- UL target SIR	Reference to TS34.108 Parameter set
- CHOICE mode	TDD
- CHOICE UL OL PC info	Individually signalled
- CHOICE TDD option	3.84 Mcps
- Individual timeslot interference info	Not Present
- Individual timeslot interference	
- DPCH Constant Value	Not Present
- Primary CCPCH Tx Power - Time info	Not Flesent
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration	Infinite
- Common timeslot info	
- 2nd interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink DPCH timeslots and codes	Default is to use the old timeslots and codes
- CPCH SET Info  Downlink information common for all radio links	(no data)
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps (no data)
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	TDD
- Choice mode	TDD
- Primary CCPCH info	Sync Case 1
- CHOICE SyncCase - Timeslot	Sync Case 1 PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
1 33.2	ı

Information Element	Value/remark
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
- Common timeslot info	
- 2nd interleaving mode	Reference to TS34.108
- TFCI coding	TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1 _
- Repetition length	Empty
- Downlink DPCH timeslots and codes	
- CHOICE more timeslots	20474
- CHOICE TDD option	3.84 Mcps
- Timeslot number	The number of a downlink timeslot that has
	unassigned codes in a frame.
- Individual timeslot info	TD.115
- TFCI existence	TRUE
- Midamble shift and burst type	0.0414
- CHOICE TDD option	3.84 Mcps
-CHOICE Burst Type -Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	As defined in SGFF 13 23.221
- First timeslot channelisation codes	
- First channelisation code	(i/SF) where i is the lowest numbered code
That analination add	that is being assigned and SF is specified in
	TS34.108 clause 6 Parameter Set
- Last channelisation code	(j/SF) where j is the highest numbered code
	that is being assigned in the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether
	the requirements of TS34.108 clause 6
	Parameter Set could be met by the codes that
	have been assigned in the first timeslot
LIL COT OUTTOOK	
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL\_DCH) (1.28 Mcps TDD option)

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier	0
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not Present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
<ul> <li>UE radio access FDD capability update</li> </ul>	FALSE
requirement	
<ul> <li>UE radio access TDD capability update</li> </ul>	TRUE
requirement	
- System specific capability update	gsm
requirement list	

Information Flowers	Voluokomark
Information Element	Value/remark
Signalling RB information to setup	(UM DCCH for RRC) Not Present
<ul><li>RB identity</li><li>CHOICE RLC info type</li></ul>	Not Present
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	OWINE
Information for each multiplexing option	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
<ul> <li>MAC logical channel priority</li> </ul>	1
- Downlink RLC logical channel info	
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>	10
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	1
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps
MAC logical channel priority	signalling radio bearer 1
<ul> <li>MAC logical channel priority</li> <li>Downlink RLC logical channel info</li> </ul>	1
Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200 Not present
- Poll_PDU	Not present

Information Element	Value/remark
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	0.7714 0.43
- 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 RACH
- Uplink transport channel type	
- UL Transport channel identity	Not Present
Logical channel identity     CHOICE RLC size list	2 Explicit List
- RLC size index	Explicit List
- RLC Size ilidex	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- MAC logical channel priority	2
- Downlink RLC logical channel info	2
- Number of RLC logical channels	1
	FACH
Downlink transport channel type     DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not Present
- CHOICE RLC info type	THOU THOUGHT
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
	· · · · ·

Information Clament	Voluetromant
Information Element	Value/remark
- Poll_SDU	1
<ul> <li>Last transmission PDU poll</li> <li>Last retransmission PDU poll</li> </ul>	TRUE TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
<ul> <li>Number of RLC logical channels</li> </ul>	1
<ul> <li>Uplink transport channel type</li> </ul>	DCH
<ul> <li>UL Transport channel identity</li> </ul>	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not December
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1 RACH
- Uplink transport channel type	Not Present
- UL Transport channel identity     - Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps
- INEO SIZE ITIOEX	signalling radio bearer
- MAC logical channel priority	3
- Downlink RLC logical channel info	o a constant of the constant o
- 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
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	200
- Timer_poll_prohibit	200
- Timer_poll	200 Not present
- Poll_PDU	Not present

Information Element	Value/remark
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
	200
- Timer_status_prohibit	
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
	DCH
- Uplink transport channel type	
- 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
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	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
	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
-Individual UL CCTrCH information	
- UL TFCS ID	(This IE is repeated for TFC number.)
- UL TFCS	
- TFC subset	Default value is the complete evicting set of transport
- 11 O 3UD3GI	Default value is the complete existing set of transport
	format combinations
<ul> <li>Allowed Transport Format combination</li> </ul>	0 to MaxTFCvalue-1 (MaxTFCValue is refer to
	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	
	Number of used hits must be angush to accord
- 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	1.51.100011
7.4454 of Neooringalou of Horrillionnation	1

Information Element	Value/remark
- Uplink transport channel type	DCH Value/remark
<ul> <li>UL Transport channel identity</li> </ul>	5
- TFS - CHOICE Transport channel type	Dedicated transport channels
<ul><li>Dynamic Transport format information</li><li>RLC size</li></ul>	According to TS34.108 clause 6 for standalone 13.6 kbps
- Number of TBs and TTI lists	signalling radio bearer (This IE is repeated for TFI number)
- CHOICE mode	TDD
- Transmission Time Interval	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- CHOICE Logical channel list	All
- Semi-static Transport Format information	
DL Transport channel information common for all transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
-Individual DL CCTrCH information	
- DL TFCS Identity	
- TFCS ID	1
- Shared Channel Indicator	
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list - Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL Transport channel identity	5
-DCH quality target	
- BLER Quality target Frequency info	-6.3 Not Present
Maximum allowed UL TX power	Not Present
HOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps
- PRX <sub>PDPCHdes</sub>	Reference to TS34.108 Parameter set
- CHOICE mode	TDD
- CHOICE <i>UL OL PC info</i> - CHOICE <i>TDD option</i>	Individually signalled 1.28 Mcps
- TPC step size	Not Present
- Primary CCPCH Tx Power	Not Present
- Time info	
<ul> <li>Activation time</li> </ul>	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration	Infinite
- Common timeslot info - 2nd interleaving mode	Reference to TS34.108 clause 6 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6 Parameter Set
- Uplink DPCH timeslots and codes	Default is to use the old timeslots and codes
- CPCH SET Info  Downlink information common for all radio links	(no data)
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
<ul> <li>Downlink DPCH power control information</li> </ul>	
- DPC mode	0 (single)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps
- TSTD indicator - Default DPCH Offset Value	Not Present
Downlink information for each radio link list	INOLITESCIIL
- Downlink information for each radio link	
- Choice mode	TDD

- Primary CCPCH info	
- CHOICE SyncCase - Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  Sync Case 1 PCCPCH timeslot 0  TDD  1  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6 1 Empty  1.28 Mcps  The number of a downlink timeslot unassigned codes in a subframe.	
- Timeslot - Cell parameters ID - SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  - Timeslot number  - Timeslot number  - Cell parameters ID 0 0  TDD  1 (256+CFN-(CFN mod 8 + 8))mod infinite  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6  1 Empty  1.28 Mcps  The number of a downlink timeslot unassigned codes in a subframe.	
- Cell parameters ID - SCTD indicator  - Downlink DPCH info for each RL  - CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - Timeslot number  O  TDD  1  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6  1  Empty  1.28 Mcps  The number of a downlink timeslot unassigned codes in a subframe.	
- SCTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - Timeslot number  - Downlink DPCH timeslots and codes - CHOICE TDD option  - Timeslot number  - Timeslot number  TDD  (256+CFN-(CFN mod 8 + 8))mod infinite  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108  Reference to TS34.108 clause 6  1 Empty  1.28 Mcps	
- Downlink DPCH info for each RL  - CHOICE mode  - DL CCTrCH List  - TFCS ID  - Time info  - Activation time  - Duration  - Common timeslot info  - 2nd interleaving mode  - TFCI coding  - Puncturing limit  - Repetition period  - Repetition length  - Downlink DPCH timeslots and codes  - CHOICE more timeslots  - CHOICE TDD option  - Timeslot number  TDD  (256+CFN-(CFN mod 8 + 8))mod infinite  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108  TRUE  Reference to TS34.108 clause 6  1  Empty  1.28 Mcps  The number of a downlink timeslot unassigned codes in a subframe.	
- CHOICE mode - DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  TDD  1  (256+CFN-(CFN mod 8 + 8))mod infinite  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6  1  Empty  1.28 Mcps  The number of a downlink timeslounassigned codes in a subframe.	
- DL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - Timeslot number  - Timeslot number  - Timeslot number  - Timeslot number  1  (256+CFN-(CFN mod 8 + 8))mod infinite  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6  1  1  1  1  1  1  1  1  1  1  1  1  1	
- TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - Timeslot number  - Timeslot number  1 (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6  1 Empty  1.28 Mcps  The number of a downlink timeslot unassigned codes in a subframe.	
- Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - Timeslot number  - Timeslot number  (256+CFN-(CFN mod 8 + 8))mod infinite  (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108  TRUE Reference to TS34.108 clause 6  1 Empty  1.28 Mcps	
- Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - Timeslot number  - Activation time (256+CFN-(CFN mod 8 + 8))mod infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6 1 Empty  1.28 Mcps  The number of a downlink timeslounassigned codes in a subframe.	
- Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  infinite  Reference to TS34.108 TRUE Reference to TS34.108 clause 6 1 Empty  1.28 Mcps  The number of a downlink timeslot unassigned codes in a subframe.	256
- Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  - Common timeslot info Reference to TS34.108 TRUE Reference to TS34.108 clause 6 1 Empty  - 1.28 Mcps  - Timeslot number  The number of a downlink timeslounassigned codes in a subframe.	230
- 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  Reference to TS34.108 TRUE Reference to TS34.108 clause 6 1 Empty  1.28 Mcps  The number of a downlink timeslounassigned codes in a subframe.	
- TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  TRUE Reference to TS34.108 clause 6 1 Empty  1.28 Mcps  TRUE Reference to TS34.108 clause 6 1 1 Empty  1.28 Mcps	
- Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  Reference to TS34.108 clause 6 1 Empty  1.28 Mcps  1.28 Mcps  The number of a downlink timeslounassigned codes in a subframe.	
- Repetition period - Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option - Timeslot number  1 Empty  1.28 Mcps  1.28 Mcps  The number of a downlink timeslounassigned codes in a subframe.	Darameter set
- Repetition length - Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option  - Timeslot number  Empty  1.28 Mcps  The number of a downlink timeslot unassigned codes in a subframe.	Farameter Set
- Downlink DPCH timeslots and codes - CHOICE more timeslots - CHOICE TDD option  1.28 Mcps  - Timeslot number  The number of a downlink timeslot unassigned codes in a subframe.	
- CHOICE more timeslots - CHOICE TDD option  1.28 Mcps  - Timeslot number  The number of a downlink timeslounassigned codes in a subframe.	
- CHOICE TDD option  1.28 Mcps  - Timeslot number  The number of a downlink timeslo unassigned codes in a subframe.	
- Timeslot number  The number of a downlink timeslog unassigned codes in a subframe.	
unassigned codes in a subframe.	
	ot that has
- Individual timeslot info	
- TFCI existence TRUE	
- Midamble shift and burst type	
- CHOICE TDD option 1.28 Mcps	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode Default	
- Midamble configuration As defined in 3GPP TS 25.221	
- First timeslot channelisation codes	
- First channelisation code (i/SF) where i is the lowest number	ered code
that is being assigned and SF is	
TS34.108 clause 6 Parameter Se	
- Last channelisation code (j/SF) where j is the highest number	
that is being assigned in the s	
- CHOICE more timeslots  The presence of this IE depends	
the requirements of TS34.108 cla	
Parameter Set could be met by the	
have been assigned in the first	
nave been assigned in the his	t till16910t
- UL CCTrCH TPC List Not Present	
-SCCPCH information for FACH Not Present	

## Contents of RRC CONNECTION SETUP COMPLETE message: $\ensuremath{\mathsf{AM}}$

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message.
START list	Not checked
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

## Contents of SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	Set to an arbitrarily selected 32-bits integer. 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	
<ul> <li>Ciphering algorithm capability</li> </ul>	
- 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
<ul> <li>Integrity protection algorithm capability</li> </ul>	00000000000010B (UIA1)
- UIA1	TRUE
- Spare	FALSE
Ciphering mode info	This presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If ciphering is indicated to be active, this
	IE present with the values of the sub IEs as stated below.
	Else, this IE is omitted.
- Ciphering mode command	Start/restart
<ul> <li>Ciphering algorithm</li> </ul>	Use the same ciphering algorithm specified in "ciphering
	algorithm capability" IE in this message.
<ul> <li>Ciphering activation time for DPCH</li> </ul>	Not Present
<ul> <li>Radio bearer downlink ciphering activation time</li> </ul>	
info	
<ul> <li>Radio bearer activation time</li> </ul>	
- 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 info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	Supported domain Not Checked
UE system specific security capability	NOT CHECKED

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink SECURITY MODE COMMAND message.
Integrity check info	-
- 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

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	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup	Not Present
RAB information for setup list	
- RAB information for setup	
- RAB info	0000 00045
- RAB identity	0000 0001B
	The first/ leftmost bit of the bit string contains
01.1	the most significant bit of the RAB identity.
- CN domain identity	CS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup list	
- RB information to setup	
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	Not Present
Number of uplink RLC logical channels     Inlink transport shapped type	1 PCH
- Uplink transport channel type	DCH
- UL Transport channel identity	Not Procent
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
MAC logical channel priority     Downlink RLC logical channel info	7
- Number of downlink RLC logical channels	1 DCH
- Downlink transport channel type	_
- DL DCH Transport channel identity	6 Not Present
- 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	Not Dropont
- PRACH TFCS	Not Present
- CHOICE mode	FDD Not Brooms
- TFC subset	Not Present
- UL DCH TFCS	Named
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Complete recentions
- CHOICE TFCS representation	Complete reconfiguration

Information Element	Value/remark
- TFCS complete reconfigure information	
- CHOICE CTFC Size	2 bit CTFC
- CTFC information	4 TFCs
- 2bit CTFC	0
-Power offset Information	
- CHOICE Gain Factors	Computed Gain Factors
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset P <sub>p-m</sub>	Not Present
- 2bit CTFC	2
- Power offset Information	0
- CHOICE Gain Factors	Computed Gain Factors
- Reference TFC ID - CHOICE mode	0 FDD
- Power offset P <sub>p-m</sub>	Not Present
- 2bit CTFC	1 1
- Power offset Information	'
- CHOICE Gain Factors	Computed Gain Factors
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset P <sub>p-m</sub>	Not Present
- 2bit CTFC	3
- Power offset Information	
- 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 <sub>p-m</sub>	Not Present
Deleted UL TrCH information list	Not Present
Added or Reconfigured UL TrCH information list	1
<ul> <li>Added or Reconfigured UL TrCH information</li> <li>Uplink transport channel type</li> </ul>	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
- Transmission Time Interval	Not Present
- Number of Transport blocks	1
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format Information	20
- Transmission time interval	20 Convolutional
- Type of channel coding - 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	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Deleted DL TrCH information list	Not Present
Added or Reconfigured DL TrCH information list	1
- Added or Reconfigured DL TrCH information	DOM
- Downlink transport channel type	DCH
- DL Transport channel identity	6 Same as UL
- CHOICE DL parameters - Uplink transport channel type	DCH
- opiink transport channel type	טטוו

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	-6dB
- PC Preamble	1 frame
- SRB delay	7 frames
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- CHOICE mode	FDD
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	1 64
- spreading factor - TFCI existence	TRUE
- Number of FBI bit	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     CHOICE mode	FDD
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset Peilot-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
- Number of bits for Pilot bits - CHOICE mode	8   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	400
Primary scrambling code     PDSCH with SHO DCH info	100 Not Present
- PDSCH with Sho Derrinto	Not Present
- Downlink DPCH info for each RL	. 1511 155511
- 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
o l opiou: r	currently stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code     - Secondary scrambling code	1
- Secondary scrambling code - Spreading factor	128
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
<ul> <li>Closed loop timing adjustment mode</li> </ul>	Not Present
- SCCPCH information for FACH	Not Present

## Contents of RADIO BEARER SETUP message: BTFD RMC

Information Element	Value/remark
Message Type	Value/Tellial N
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	Aubitrarily scients arranteger between 6 and 6
- message authentication code	SS calculates the value of MAC-I for this message
message authoritication 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
Tare mossage sequence number	counter.
Integrity protection mode info	Not Present
Ciphering mode info	The presence of this IE is dependent on IXIT
	statements in TS 34.123-2. If ciphering is indicated to
	be active, this IE present with the values of the sub
	IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use one of the supported ciphering algorithms
- Ciphering activation time for DPCH	Set by operator
- Radio bearer downlink ciphering activation time	Not Present
info	
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	
- 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	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	N / D
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH 1
UL Transport channel identity     Logical channel identity	Not Present
- CHOICE RLC size list	
	Configured
- MAC logical channel priority     - Downlink RLC logical channel info	1
- Downlink RLC logical channel into     - Number of downlink RLC logical channels	1
- Number of downlink RLC logical charmers - Downlink transport channel type	DCH
- 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
Downlink Counter Synonionication into	RMC for BTFD
UL Transport channel information for all transport	INVIOLIDIDID
channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD
- OHOIGE HIGGE	וטט ו

L.C	N. L. J
Information Element	Value/remark
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	W 00%
- CHOICE CTFC Size	ctfc6Bit
- ctfc6Bit	22
- ctfc6	0
-powerOffsetInformation(OP)	0
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	11
-powerOffsetInformation(OP)	Compute dCoin Footore
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	1
-powerOffsetInformation(OP)	Compute dCoin Footore
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	12
-powerOffsetInformation(OP)	SignalladCainEasters
-gainFactorInformation	SignalledGainFactors
-modeSpecificInfo -fdd	Fdd
- Gain factor ßc	0
- Gain factor isc	8
- Gain factor isd - Reference TFC ID	15
- ctfc6	2
- ctico -powerOffsetInformation(OP)	2
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	13
-powerOffsetInformation(OP)	13
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	3
-powerOffsetInformation(OP)	<u> </u>
-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)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	5
-powerOffsetInformation(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)	Commute dCoinFootore
-gainFactorInformation - Reference TFC ID	ComputedGainFactors
- ctfc6	8
-powerOffsetInformation(OP)	0
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	19
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	9
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	20
-powerOffsetInformation(OP)	ComputedCainFactors
-gainFactorInformation - Reference TFC ID	ComputedGainFactors 0
- ctfc6	10
-powerOffsetInformation(OP)	10
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	21
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
Added or Reconfigured UL TrCH information	
-ul-AddReconfTransChInfoList	1
- Uplink transport channel type	DCH 1
- UL Transport channel identity - TFS	1
- CHOICE Transport channel type	Dedicated transport channels
-DedicatedDynamicTF-Info	Dedicated transport channels
RLC size	256
-numberOfTbSizeList	
-NumberOfTransportBlocks	Zero
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	216
-numberOfTbSizeList	
-NumberOfTransportBlocks	One
RLC size	171
- Choice Logical Channel List	ALL
-numberOfTbSizeList	
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	160
-numberOfTbSizeList	One
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	146
-numberOfTbSizeList -NumberOfTransportBlocks	lone
	one ALL
- Choice Logical Channel List	ALL

Information Element	Value/remark
RLC size	130
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	115
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	107
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	51
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	12
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
-Semistatic Transport Format Information	
-Transmission Time interval	20 ===
	20 ms
-channelCodingType	Convolutional
-convolutional	1/3
- Rate matching attribute	256
- CRC size	0
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Explicit
- DL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	04.00
- CHOICE CTFC Size	Ctfc6Bit
- ctfc6Bit	20
- ctfc6	9
- ctfc6	19
- ctfc6	10
- ctfc6	1
- ctfc6	11
- ctfc6	12
- ctfc6	
- ctfc6 - ctfc6	3 13
- ctrc6	4
- ctic6	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	
-dl-AddReconfTransChInfoList(OP)	1
- Downlink transport channel type	DCH
- DL Transport channel identity	6
. ,	•

Information Element	Value/remark
- CHOICE DL parameters	Explicit
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
-DedicatedDynamicTF-Info	
RLC size	244
-numberOfTbSizeList	
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	204
-numberOfTbSizeList	
-NumberOfTransportBlocks RLC size	One 159
- Choice Logical Channel List -numberOfTbSizeList	ALL
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	148
-numberOfTbSizeList	170
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	134
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	118
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	103
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	95
-numberOfTbSizeList -NumberOfTransportBlocks	one
- Choice Logical Channel List	one ALL
RLC size	39
-numberOfTbSizeList	39
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	0
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
-Semistatic Transport Format Information	
-Transmission Time interval	20 ms
-channelCodingType	Convolutional
-convolutional	1/3
- Rate matching attribute	256
- CRC size	12
- DCH quality target	12
- BLER Quality value	-2.0
- Transparent mode signalling info	Not Present
Frequency info	Not Present
Maximum allowed UL TX power	33 dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
- DPCCH power offset	0
- PC Preamble	1 frame
- SRB delay - Power Control Algorithm	7 frames Algorithm1
- Power Control Algorithm - TPC step size	1dB
11 0 0.00 0.20	1.05

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	, ,
- Downlink DPCH info common for all RL	FDD
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P <sub>Pilot-DPDCH</sub>	0
- DL rate matching restriction information	Not Present
- Spreading factor	128
- Number of bits for Pilot bits(SF=128,256)	4
- Fixed or Flexible Position	Fixed
- TFCI existence	FALSE
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Primary CPICH info	Not Present
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
<ul> <li>Primary CPICH usage for channel estimation</li> </ul>	Primary CPICH may be used
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently
	stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	0
- Spreading factor	128
- Code number	Set to value stored in SS
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

## Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
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	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	0000 0000 00045
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not Present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	TOUE
- UE radio access FDD capability update	TRUE
requirement	EM OF
- UE radio access TDD capability update	FALSE
requirement	Com
- System specific capability update requirement list	Gsm 4 CRPs
Signalling RB information to setup list	4 SRBs
- Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	2 PPM:wOntiere
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	Configured
- CHOICE RLC size list	Configured
- MAC logical channel priority	
- Downlink RLC logical channel info	1
- Number of RLC logical channels	DCH
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10 Not Procent
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	RACH
<ul> <li>Uplink transport channel type</li> <li>UL Transport channel identity</li> </ul>	Not Present
•	1
- Logical channel identity - CHOICE RLC size list	Configured
- CHOICE RLC size list - RLC size index	Configured Reference to TS34.108 clause 6 Parameter Set
- RLC size index - MAC logical channel priority	1
- MAC logical channel priority - Downlink RLC logical channel info	'
- Number of RLC logical channels	1
Number of RLC logical channels     Downlink transport channel type	FACH
- Downlink transport channel type - DL DCH Transport channel identity	Not Present
- DL DCH Transport channel identity - DL DSCH Transport channel identity	Not Present Not Present
- DL DSCH Transport channel identity - Logical channel identity	1
- Logical channel identity - Signalling RB information to setup	(AM DCCH for RRC)
	(AM DCCH for RRC)
- RB identity - CHOICE RLC info type	Not Present
- OFFOICE NEO IIIIO type	1

Information Element	Value/remark
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	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	1.23
- Timer_status_prohibit	200
- Timer_status_profilibit	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not i resent
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of 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	<u> </u>
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not Present
- CHOICE RLC info type	TOTA TOOMIC
- RLC info	
I NEO II IIO	l

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	1
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	1101111000111
- 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

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	4
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	Not Droppert
- PRACH TFCS	Not Present
- CHOICE Mode	FDD Net Present
- TFC subset	Not Present
- UL DCH TFCS	

Information Element	Value/remark
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Normal
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	Complete recorning drawers
- CHOICE CTFC Size	2 bit CTFC
- CTFC information	2 TFCs
- 2bit CTFC	0
- Power offset Information	
- CHOICE Gain Factors	computedGainFactors
- Reference TFC ID	
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
- 2bit CTFC	1
- Power offset Information	
- CHOICE Gain Factors	signalledGainFactors
- CHOICE mode	FDD
- Gain factor ßc	15
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information list	1
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport Format Information	
- RLC size	96 bits
- Number of TBs and TTI List	2
- Transmission Time Interval	Not Present
- Number of Transport blocks	0
- Transmission Time Interval	Not Present
- Number of Transport blocks	1
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format Information	
- Transmission time interval	40
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	256
- CRC size	12
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured DL TrCH information list	1
- Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	SameAasUL
- Uplink transport channel type	DCH
- UL TrCH Identity	5
- DCH quality target	
- BLER Quality value	-2.0
Frequency info	Not Present
Maximum allowed UL TX power	Not Present
CHOICE channel requirement	Uplink DPCH info

Information Element	Value/remark
- Uplink DPCH power control info	value/remark
· · · · · · · · · · · · · · · · · · ·	CAD
- DPCCH power offset	-6dB
- PC Preamble	1 frame
- SRB delay	7 frames
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- CHOICE mode	FDD
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	Not Present (1)
- Spreading factor	256
- TFCI existence	TRUE
- Number of FBI bit	Not Present(0)
- Puncturing Limit	1
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing Indication	Initialise
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- CHOICE mode	FDD
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P Pilot-DPDCH	0
- DL rate matching restriction information	Not Present
- Spreading factor	256
- Fixed or Flexible Position	Fixed
- TFCI existence	FALSE
- CHOICE SF	I ALGE
- 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	500
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- CHOICE mode	FDD
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value : Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	256
- Code number	0
- Scrambling code change	Not Present
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

Contents of SECURITY MODE COMMAND message: AM

Message Type RRC transaction identifier Integrity check info  - Message authentication code  - RRC Message Sequence Number Security capability  - Ciphering algorithm capability  - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - Ciphering mode info  - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RCC sequence number - RB	Information Element	Value/remark
RRC transaction identifier integrity check info  - Message authentication code  - RRC Message Sequence Number Security capability  - Ciphering algorithm capability  - UEA0  - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - Spare - Integrity protection algorithm capability  - UIA1  - Spare - Integrity protection algorithm - Ciphering algorithm - Radio bearer activation time - Radiontity - RLC sequence number - Radiontity - RLC sequence num	Message Type	
Integrity check info  - Message authentication code  - Message Sequence Number  Security capability  - Ciphering algorithm capability  - UEA1  - Spare - Integrity protection algorithm capability  - Liphering mode info  - Ciphering algorithm -		Arbitrarily selects an integer between 0 and 3
leftmost bit of the bit string contains the most significant bit of the MAC-I.  Security capability - Ciphering algorithm capability - UEA0  If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  If the UE has indicated support for ciphering algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  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.  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 2-15 = FALSE 000000000000010B (UIA1) TRUE Spare 0 and Spare 2-15 = FALSE This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.  Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.  Start/restart  UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  Spare 2-15 = FALSE This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.  Start/restart  UEA0 or UEA1.  1 Current RLC SN+2  2 Current RLC SN+2  3 Current RLC SN+2  4 Current RL	Integrity check info	
Security capability  - Ciphering algorithm capability  - UEA0  - UEA0  - UEA1  - Spare - Integrity protection algorithm capability - UIA1 - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Integrity protection algorithm capability - UIA1 - Spare - Ciphering mode info  - Ciphering mode command - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm capability - Ciphering algorithm capability - Ciphering algorithm capability - Ciphering algorithm capability - Ciphering mode command - Ciphering algorithm capability - Ciphering mode info - Ciphering algorithm capability - Ciphering algorithm capabi	- Message authentication code	leftmost bit of the bit string contains the most significant bit
- Ciphering algorithm capability - UEA0  If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  - UEA1  If the UE has indicated support for ciphering algorithm UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  - Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering activation time for DPCH - Radio bearer activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RCC sequence number - RB identity -		Set to an arbitrarily selected integer between 0 and 15
- UEA0  - UEA1  - UEA2  - UEA1  - UEA1  - UEA2  - UEA1  - UEA3  - UEA1  - UEA1  - UEA3  - UEA1  - UEA3  - UEA1  - UEA3  - UEA1  - UEA3  - UEA2  - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - UEA3  - UEA2  - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - UEA1  - UEA3  - UEA5		
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 - UIA1 - Spare Ciphering mode info  Ciphering mode command - Ciphering algorithm - Ciphering algorithm  Ciphering algorithm  Ciphering algorithm  Ciphering activation time for DPCH - Radio bearer activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RCC sequence number -	- Ciphering algorithm capability	
UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.  Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info TRUE  - Ciphering mode info Spare Ciphering mode command - Ciphering algorithm  - Ciphering algorithm  - Ciphering algorithm  - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC		UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE.
- Spare - Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  - Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC	- UEA1	UEA1 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is
- Integrity protection algorithm capability - UIA1 - Spare Ciphering mode info  Ciphering mode info  Ciphering mode command - Ciphering algorithm - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RLC sequence nu	- 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 algorithm  Ciphering algorithm  Ciphering algorithm  Ciphering activation time for DPCH Radio bearer downlink ciphering activation time info Radio bearer activation time RB identity RLC sequence number RB identity RC sequence number RB identity	- Integrity protection algorithm capability	000000000000010B (UIA1)
TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.  - Ciphering algorithm  - Ciphering algorithm  - Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - RB identity - RCS sequence number - RB	- Spare	Spare 0 and Spare 2-15 = FALSE
- Ciphering mode command - Ciphering algorithm  Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.Use the same ciphering algorithm specified in "ciphering Not Present  1 Current RLC SN+2 RB identity RLC sequence number RB identity STATT/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.Use the same ciphering algorithm specified in "ciphering Not Present  1 Current RLC SN+2 2 Current RLC SN+2 3 Current RLC SN+2 4 Current RLC SN + 2  Start Not Present UIA1 Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.Use the same ciphering algorithm specified in "ciphering Not Present  1 Current RLC SN+2 2 Current RLC SN + 2 4 Current RLC SN + 2 UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message.Use the same ciphering algorithm specified in "ciphering Not Present US Start Not Present UIA1 Start/restart UEA0 or UEA1. The indicated algorithm saligorithm specified in "ciphering Not Present UIA1 Start/restart UEA0 or UEA1. The indicated algorithm saligorithm specified in "ciphering Not Present UIA1 Start/restart UEA0 or UEA1. The indicated algorithm saligorithm specified in "ciphering Not Present  1 UEA0 or UEA1. The indicated algorithm saligorithm specified in "ciphering Not Present  1 UEA0 or UEA1. The indicated algorithm specified in "ciphering algorithm specified in "ciphering algorithm specified in "ciphering algorithm specified in "ciphering algorithm specified	Ciphering mode info	TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below.
- Ciphering activation time for DPCH - Radio bearer downlink ciphering activation time info - Radio bearer activation time - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity  Not Present  1  - Current RLC SN+2 - Current RLC SN + 2 - Current		Start/restart UEA0 or UEA1. The indicated algorithm must be one of the algorithms supported by the UE as indicated in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message. Use the same ciphering algorithm
- Radio bearer downlink ciphering activation time info  - Radio bearer activation time  - RB identity  - RLC sequence number  - Integrity protection mode info  - Integrity protection algorithm  - Integrity protection algorithm  - Integrity protection initialisation number  CN domain identity  - Radio bearer activation time  1  - Current RLC SN+2  - Current RLC SN + 2  - Current R	Ciphoring activation time for DDCH	
- Radio bearer activation time - RB identity - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - Integrity protection initialisation number - Integrity protection initialisation number - CN domain identity - RLC SQUENCE SN + 2 - Current RLC SN + 2	- Radio bearer downlink ciphering activation time	Not Flesent
- RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RB identity - RC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - RB identity - RLC sequence number - Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity  1  Current RLC SN+2  Current RLC SN + 2  Current RLC SN + 2  Current RLC SN + 2  UIA1  Start  Not Present  UIA1  SS selects an arbitrary 32 bits number for FRESH  CS or PS		
- RLC sequence number - RB identity - RLC sequence number - RB identity - RB identity - RB identity - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - CS or PS		1
- RB identity - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity   Current RLC SN + 2  UIFFICE SN + 2  UIFFICE SN + 2  UIFFICE SN + 2  Current RLC SN + 2  UIFFICE SN + 2  Current RLC SN + 2		Current RLC SN+2
- RLC sequence number - RB identity - RLC sequence number - RB identity - RB identity - RLC sequence number - RB identity - RLC sequence number - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - Integrity protection initialisation number - Integrity protection initialisation number - RLC SN + 2 - Current RLC SN +		2
- RB identity - RLC sequence number - RB identity - RLC sequence number - RLC sequence number - RLC sequence number - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number - CN domain identity - RLC SN + 2 - Current RLC SN + 2 - C		Current RLC SN+2
- RLC sequence number - RB identity - RLC sequence number  Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity  Current RLC SN + 2  Current RLC SN + 2  Current RLC SN + 2  UIFFUR TO STATE OF THE SH STATE OF THE SH SS selects an arbitrary 32 bits number for FRESH CS or PS		3
- RB identity - RLC sequence number  Integrity protection mode info - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity  4 Current RLC SN + 2  Start Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH CS or PS		Current RLC SN + 2
- RLC sequence number  Integrity protection mode info  - Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity  Current RLC SN + 2  Start  Not Present  UIA1  SS selects an arbitrary 32 bits number for FRESH  CS or PS		
Integrity protection mode info  - Integrity protection mode command  - Downlink integrity protection activation info  - Integrity protection algorithm  - Integrity protection initialisation number  CN domain identity  Start  Not Present  UIA1  SS selects an arbitrary 32 bits number for FRESH  CS or PS		Current RLC SN + 2
- Integrity protection mode command - Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number  CN domain identity  Start  Not Present  UIA1  SS selects an arbitrary 32 bits number for FRESH  CS or PS		
- Downlink integrity protection activation info - Integrity protection algorithm - Integrity protection initialisation number CN domain identity  Not Present UIA1 SS selects an arbitrary 32 bits number for FRESH CS or PS		Start
- Integrity protection algorithm - Integrity protection initialisation number  CN domain identity  UIA1  SS selects an arbitrary 32 bits number for FRESH  CS or PS		
- Integrity protection initialisation number SS selects an arbitrary 32 bits number for FRESH CS or PS	<b>5</b> , .	
CN domain identity CS or PS		
,,	UE system specific security capability	Not Checked

# 9.2.2 Default Message Contents for RF (TDD)

Contents of Activate RB Test Mode message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	44h

## Contents of Close UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

#### Contents of Open UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	42h

#### Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Streaming Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

### Contents of PAGING TYPE 1 message: TM (PS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
<ul> <li>CHOICE Used paging identity</li> </ul>	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

Contents of RADIO BEARER SETUP message: AM or UM (3.84 Mcps TDD)

Information Element	Condition	Value/remark
Message Type	A1,A3	20 20 20 20 20 20
RRC transaction identifier	""	Arbitrarily selects an integer between 0 and 3
Integrity check info		l ,
- message authentication code		SS calculates the value of MAC-I for this
moodage adminimation 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
Titte meesage eequenee names.		internal counter.
Integrity protection mode info		Not Present
Ciphering mode info		Not Present
Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI		Not Present
New C-RNTI		Not Present
New DSCH-RNTI		Not Present
RRC State indicator		CELL_DCH
UTRAN DRX cycle length coefficient		Not Present
CN information info		Not Present
URA identity		Not Present
Signalling RB information to setup		Not Present
RAB information for setup list	A1	
- RAB information for setup	[	
- RAB info		
- RAB identity		0000 0001B
To its identity		The first/ leftmost bit of the bit string contains
		the most significant bit of the RAB identity.
- CN domain identity		CS domain
- NAS Synchronization Indicator		Not Present
- Re-establishment timer		UseT314
- RB information to setup list		0001011
- RB information to setup		
- RB identity		10
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
- RB mapping info		
<ul> <li>Information for each multiplexing option</li> </ul>		
<ul> <li>RLC logical channel mapping indicator</li> </ul>		Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>		1
<ul> <li>Uplink transport channel type</li> </ul>		DCH
- UL Transport channel identity		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
- MAC logical channel priority		7
- Downlink RLC logical channel info		
Number of downlink RLC logical channels  Payer link transport the proof type		1
- Downlink transport channel type		DCH
- DL DCH Transport channel identity		6 Not Present
DL DSCH Transport channel identity     Logical channel identity		Not Present Not Present
RAB information for setup list	A3	NOUT TESCHE
- RAB information for setup	73	
- RAB info		
- RAB illio - RAB identity		0000 0101B
- NAD 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 list		0361314
- RB information to setup		
1 No information to sotup	I	I

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		
<ul> <li>Timer_status_prohibit</li> </ul>		200
- Timer_EPC		200
- Missing PDU indicator		TRUE
- Timer_STATUS_periodic		Not Present
- RB mapping info		
- Information for each multiplexing option		2RBMuxOptions
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
<ul> <li>MAC logical channel priority</li> </ul>		8
<ul> <li>Downlink RLC logical channel info</li> </ul>		
<ul> <li>Number of downlink RLC logical channels</li> </ul>		1
<ul> <li>Downlink transport channel type</li> </ul>		DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>		6
- 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
<ul> <li>MAC logical channel priority</li> </ul>		8
- Downlink RLC logical channel info		
<ul> <li>Number of downlink RLC logical channels</li> </ul>		1
- Downlink transport channel type		FACH
- DL DCH Transport channel identity		Not Present
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		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.)
<ul> <li>Allowed Transport Format combination</li> </ul>		0 to MaxTFCvalue-1 (MaxTFCValue is refer to
		TS34.108 clause 6 Parameter Set.)
- PRACH TFCS		(This IE is repeated for TFC number.)

- CHOICE TFCI signaling - TFCS complete reconfigure information - CHOICE TFCS Size  - CTFC information - CHOICE mode - Individual UL CCTrCH information Deleted UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel identity - TFC information - Uplink transport channel identity - TFC information - PROFE Transport channel identity - TFC information - RLC size - Number of Tsansport format information - RLC size - Number of Transport blocks - CHOICE Logical Channel List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport format information - Transmission time interval - Type of channel coding - Coding Rate - Cading Rate - CRC size  CHOICE mode - CHOICE mode - CHOICE To parameters  Deleted UL TrCH information ist - CHOICE mode - UL Transport channel information common for all transport channel information common f	Information Element	Condition	Value/remark
- TFCI Field information - TFCS complete reconfigure information - CHOICE TFCS Size  - CTFC information - CHOICE mode - Individual UL CCTrCH information - CHOICE mode - Individual UL CCTrCH information - CHOICE mode - Individual UL TCH information list - Added or Reconfigured UL TrCH information ist - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - UL Transmission Time Interval - Number of Ts and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Coding Rate - Rate matching attribute - CRC size  - CHOICE mode - CHOICE mod		Condition	
- CHOICE TrCS Size  - CTFC information - CHOICE mode - Individual UL CCTCH information Deleted UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel identity - TFS - CHOICE Transport channel type - UL Transport for Transport blocks - Number of Transport blocks - CHOICE upland Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport promat Information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE solic Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE solic Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE solic Logical Channel List - Reference to TS34.108 clause 6.10 Parameter - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set - Reference to TS34.108 clause 6.10 Parameter - Set			
- CTFC information - CHOICE mode - Individual UL CCTCH information Deleted UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel type - UL Transport for 1Tansport blocks - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - Transmission time Interval - Number of Transport blocks - Transmission time Interval - Number of Transport blocks - Transmission time Interval - Number of Transport blocks - Transmission time Interval - Number of Transport blocks - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time Interval - Number of Transport blocks - CHOICE Logical Channel List - Reference to TS34.108 clause 6.10 Parameter - Sec CHOICE mode - CHOICE DL parameters - Uplink transport channel ligentity - CHOICE LOgical Channel Light - CHOICE Toth Information list - Added or Reconfigured DL TrCH Information - Individual timestor tinterference - Uplink DPCH prever control info - CHOICE TDD option - Individual timestor interference - DPCH Constant Value - CHOICE TDD option - Individual timestor interference - DPCH Constant Value - CHOICE TDO option - Individual timestor interference - DPCH Constant Value - CHOICE Top option - Individual timestor in			
- CTFC information - CHOICE mode - Individual UL CCTrCH information Deleted UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel type - UL Transport channel type - Dynamic Transport blocks - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Number of Transport blocks - CHOICE Logical Channel List - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Sort port at Information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Sort port at Information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Sort port at Information - Transmission time interval - Type of channel coding - Coding Rate - Reference to TS34.108 clause 6.10 Parameter - Reference to T	- CHOICE TFCS Size		
- CTFC information - CHOICE mode - Individual UL CCTrCH information Deleted UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Unasport of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport blocks - CHOICE Logical Channel List - Rate matching attribute - CRC size  CHOICE Mode - CHOICE Transport channel type - UL Transport channel information - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size  CHOICE mode - CHOICE Indep Transport channel lype - UL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE The Information list - Added or Reconfigured UL TrCH information - Individual timestot interference - DPCH Constant Value - CHOICE TDD option - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - CHOICE Topolon - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon - Individual timestot interference - DPCH Constant Value - CHOICE Topolon -			
- CHOICE mode - Individual UL. CTrCH information Deleted UL. TrCH information list Added or Reconfigured UL. TrCH information list - Added or Reconfigured UL. TrCH information - Uplink transport channel type - UL. Transport channel type - UL. Transport channel type - U. Transport channel type - Dynamic Transport professes - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format Information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size  CHOICE mode  DL. Transport channel Information common for all transport channel - SCCPCH TFCS - CHOICE Mode - CHOICE DL parameters  Deleted DL. TrCH information list - Added or Reconfigured DL. TrCH information - Downlink transport channel type - UL. TrCH identity - CHOICE DL parameters - Uplink transport channel lype - UL. TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL. TrCH identity - CHOICE DL parameters - Uplink transport channel type - UL. TrCH information information - Individual timestot interference - Uplink transport channel type - UL. Transport channel identity - CHOICE Ende Power control info - CHOICE mode - UL. Transport channel identity - CHOICE mode - UL. Transport channel identity - CHOICE mode - UL. Transport channel identity - CHOICE buse parameters - Uplink transport channel identity - CHOICE transport channel identity - CHOICE mode - UL. TrcD poption - Individual timestot interference - DPCH Constant Value - CHOICE mode - UL. TrcD poption - Individual timestot interference - DPCH Constant Value - CHOICE mode - UL. TrcD poption - Individual timestot interference - DPCH Const			
Individual UL CCTrCH information   Not Present   Added or Reconfigured UL TrCH information list   Added or Reconfigured UL TrCH information   Ist   Added or Reconfigured UL TrCH information   State   Added or Reconfigured UL TrCH information   DCH   IT ransport channel ligently   IT ransport channel identity   CCHOICE Transport channel bype   Dynamic Transport Format Information   Reference to TS34.108 clause 6.10 Parameter Set   Semi-static Transport blocks   CHOICE Logical Channel List   Semi-static Transport Format Information   Transmission Time Interval   Number of Transport blocks   CHOICE Mode   CHOICE Mode   CHOICE Mode   CHOICE Mode   CHOICE Mode   CHOICE DL prameters   UL TrCH information list   Added or Reconfigured UL TrCH information   Present   Atl. 3   Atl. 3   Atl. 3   Atl. 3   Atl. 3   Atl. 3   Atl. 4   Atl. 4   Atl. 4   Atl. 5   Atl. 5   Atl. 6   Atl. 7   Atl. 7   Atl. 7   Atl. 8   Atl. 8   Atl. 9			
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Deleted DL TrCH information list Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  A1,A3 Not Present 1  BCH 6 Same as UL DCH 1  A1,A3 Not Present 1  A1,A3 Not Present 1  BCH 6 Same as UL DCH 1  CHOICE to TS34.108 clause 6  Reference to TS34.108 clause 6  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331 TDD			Independent (Refer to TS34.108 clause 6)
- Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  - CHOICE mode - CHOICE mode - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value - CHOICE mode - CHOICE mode - CHOICE mode - DPCH Constant Value - CHOICE mode - TDD - Reference to TS34.108 Parameter set Individually signalled - Same as UL - CHOICE to TS34.108 clause 6 - Not Present - Same as UL - CHOICE to TS34.108 clause 6 - Not Present - Sade as UL - CHOICE to TS34.108 clause 6 - Individually signalled - CHOICE mode - Values are used for open loop power control, section 8 in TS 25.331 - CHOICE mode	Deleted DL TrCH information list	A1,A3	Not Present
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  DCH 6 Same as UL DCH 1 1 Not Present 30dBm Uplink DPCH info  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331 TDD			1
- DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - Individual timeslot interference - DPCH Constant Value  - CHOICE mode - UC TDD option - Individual timeslot interference - DPCH Constant Value  - CHOICE mode - CHOICE mode - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  - CHOICE mode - CHOICE m			
- CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - Individual timeslot interference - DPCH Constant Value  Same as UL DCH  Reference to TS34.108 clause 6  Not Present 30dBm Uplink DPCH info  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD			
- Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  - CHOICE mode - UCHOICE TDD option - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  - CHOICE mode - UCHOICE TDD option - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  - CHOICE mode  - CHOICE mode  - CHOICE mode  - DPCH Constant Value  - CHOICE mode  - UCHOICE mode  - DPCH Constant Value  - CHOICE mode  - DPCH Constant Value  - DPCH Constant Value  - CHOICE mode			
- UL TrCH identity - DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  - CHOICE mode - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  - CHOICE mode  1			
- DCH quality target - BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value  Reference to TS34.108 clause 6  A1,A3 Not Present 30dBm Uplink DPCH info  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD			
- BLER Quality value  Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  Reference to TS34.108 clause 6  A1,A3 Not Present 30dBm Uplink DPCH info  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD			'
Frequency info Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  A1,A3  Not Present 30dBm Uplink DPCH info  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD			Reference to TS34.108 clause 6
Maximum allowed UL TX power CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  30dBm Uplink DPCH info  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD		A1,A3	
CHOICE channel requirement  - Uplink DPCH power control info  - CHOICE mode  - UL Target SIR  - CHOICE UL OL PC info  - CHOICE TDD option  - Individual timeslot interference  - DPCH Constant Value  - CHOICE mode  Uplink DPCH info  TDD  Reference to TS34.108 Parameter set.  Individually signalled  3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD		""	
- Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  TDD Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD	CHOICE channel requirement		Uplink DPCH info
- UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  Reference to TS34.108 Parameter set. Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331	- Uplink DPCH power control info		·
- CHOICE UL OL PC info - CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  Individually signalled 3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD			
- CHOICE TDD option - Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  3.84 Mcps  Values are used for open loop power control, section 8 in TS 25.331  TDD			
- Individual timeslot interference info - Individual timeslot interference - DPCH Constant Value  - CHOICE mode  - Individual timeslot interference - Ualues are used for open loop power control, section 8 in TS 25.331			
- Individual timeslot interference - DPCH Constant Value  - CHOICE mode  - Individual timeslot interference - Values are used for open loop power control, section 8 in TS 25.331  - TDD			3.84 Mcps
- DPCH Constant Value Values are used for open loop power control, section 8 in TS 25.331 - CHOICE mode TDD			
- CHOICE mode section 8 in TS 25.331 TDD			Values are used for open loop power control
- CHOICE mode TDD	- Di Oi i Constant value		
	- CHOICE mode		
Spirit Tilling Advance Control	- Uplink Timing Advance Control		Not Present

Information Element	Condition	Value/remark
- UL CCTrCH List		
- TFCS Id		1
- Time info		'
- Activation time		(256 CEN (CEN MOD 9 + 9)/MOD 256
		(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration		Infinite
- Common timeslot info		
- 2nd interleaving mode		Reference to TS34.108 clause 6.10 Parameter
TEOL		Set Set
- TFCI coding		Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period		Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length		Reference to TS34.108 clause 6.10 Parameter Set
- First individual timeslot info		66.
- Timeslot number		The number of an uplink timeslot that has
- Timesiot number		
		unassigned codes.
- TFCI existence		TRUE
<ul> <li>Midamble shift and burst type</li> </ul>		
- CHOICE TDD option		3.84 Mcps
-CHOICE Burst Type		·
-Type 1		
-Midamble Allocation Mode		Default
		As defined in 3GPP TS 25.221
- Midamble configuration burst		As defined in SGFF 15 25.221
type 1 and 3		
- First timeslot channelisation codes		Repeated (1,2) for each channelisation code
		assigned in the slot to meet the needs of
		TS34.108 clause 6 Parameter Set.
- Channelisation code		(i/SF) where i denotes an unassigned code
		matching the SF specified in TS34.108 clause
		6 Parameter Set.
- CHOICE more timeslots		
- CHOICE more timestors		The presence of this IE depends upon the
		number of resources specified in TS34.108
		section 6 and the number of slots in which they
		are being assigned.
CHOICE Mode		TDD (no data)
Downlink information common for all radio links	A1,A3	
- Downlink DPCH info common for all RL	·	
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		140t i icschi
		TDD
- CHOICE mode		TDD
- DPC mode		0 (single)
- CHOICE TDD mode		3.84 Mcps (no data)
- Default DPCH Offset Value		Not Present
Downlink information for per radio link list	A1,A3	
- Downlink information for each radio link		
- CHOICE mode		TDD
- Primary CCPCH info		
- CHOICE SyncCase		Sync Case 1
		Sync Case 1 PCCPCH timeslot
- 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
- Activation time		
		infinite
- Common timeslot info		D ( T00 ( ) 00
- 2 <sub>nd</sub> interleaving mode		Reference to TS34.108
- TFCI coding		TRUE
- Puncturing limit		Reference to TS34.108 clause 6 Parameter
		set
1	i	

Information Element	Condition	Value/remark
- Repetition period		1
- Repetition length		Empty
<ul> <li>Downlink DPCH timeslots and codes</li> </ul>		
<ul> <li>Individual timeslot info</li> </ul>		
- Timeslot number		The number of a downlink timeslot that has unassigned codes.
- TFCI existence - Midamble shift and burst type		TRUE
- CHOICE TDD option -CHOICE Burst Type		3.84 Mcps
-Type 1 -Midamble Allocation Mode		Default
- Midamble configuration burst		As defined in 3GPP TS 25.221
type 1 and 3		As defined in SGFF 13 23.221
- First timeslot channelisation codes		
- First channelisation code		(i/SF) where i is the lowest numbered code
- i list chamiensation 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.
- Bitmap		Bitmap of the codes that are being assigned in
- ышпар		the slot.
- CHOICE more timeslots		
- CHOICE more timesions		The presence of this IE depends upon whether
		the requirements of TS34.108 clause 6
		Parameter Set could be met by the codes that
LIL COT CH TDC Liet		have been assigned in the first timeslot  Not Present
- UL CCTrCH TPC List		1 1000 1000 11
-SCCPCH information for FACH		Not Present

Co	ondition	Explanation
A1		This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is
		selected.
A3 This IE is needed for acknowledged mode.		This IE is needed for acknowledged mode.
NOTE:	NOTE: In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the	
combination of UL and DL channels or test requirements.		

Contents of RADIO BEARER SETUP message: AM or UM (1.28 Mcps TDD)

Information Element	Condition	Value/remark
Message Type	A1,A3	20 20 20 20 20
RRC transaction identifier	"	Arbitrarily selects an integer between 0 and 3
Integrity check info		, and the same of
- message authentication code		SS calculates the value of MAC-I for this
coodge admionilodison 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
Tarke message sequence number		internal counter.
Integrity protection mode info		Not Present
Ciphering mode info		Not Present
Activation time		(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI		Not Present
New C-RNTI		Not Present
New DSCH-RNTI		Not Present
RRC State indicator		
		CELL_DCH
UTRAN DRX cycle length coefficient		Not Present
CN information info		Not Present
URA identity		Not Present
Signalling RB information to setup	A 4	Not Present
RAB information for setup list	A1	
- RAB information for setup		
- RAB info		0000 00045
- RAB identity		0000 0001B
		The first/ leftmost bit of the bit string contains
		the most significant bit of the RAB identity.
- CN domain identity		CS domain
<ul> <li>NAS Synchronization Indicator</li> </ul>		Not Present
- Re-establishment timer		UseT314
- RB information to setup list		
- RB information to setup		
- RB identity		10
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
- RB mapping info		
<ul> <li>Information for each multiplexing option</li> </ul>		
<ul> <li>RLC logical channel mapping indicator</li> </ul>		Not Present
<ul> <li>Number of uplink RLC logical channels</li> </ul>		1
<ul> <li>Uplink transport channel type</li> </ul>		DCH
<ul> <li>UL Transport channel identity</li> </ul>		1
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
<ul> <li>MAC logical channel priority</li> </ul>		7
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels		1
- Downlink transport channel type		DCH
- DL DCH Transport channel identity		6
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
RAB information for setup list	A3	
- RAB information for setup		
- RAB info		
- RAB identity		0000 0101B
,		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 list		
- RB information to setup		

Information Element	Condition	Value/remark
- RB identity	Solidition	20
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		AM RLC
- Transmission RLC discard		AIVI NEC
- CHOICE SDU discard mode		No discard
- MAX_DAT		15
- Transmission window size		128
- Timer_RST		500
- Max_RST		4
- Polling info		
- Timer_poll_prohibit		200
- Timer_poll		200
- Poll_SDU		1
- Last transmission PDU poll		TRUE
- Last retransmission PDU poll		TRUE
- Poll_Windows		99
- Timer_poll_periodic		Not Present
- CHOICE Downlink RLC mode		AM RLC
- In-sequence delivery		TRUE
- Receiving window size		128
- Downlink RLC status info		
- Timer_status_prohibit		200
- Timer_EPC		200
- Missing PDU indicator		TRUE
- Timer_STATUS_periodic		Not Present
- RB mapping info		
- Information for each multiplexing option		2RBMuxOptions
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- 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
- CHOICE RLC SIZE IIST - RLC size index		Reference to TS34.108 clause 6 Parameter
- RLC Size index		Set
NAA O la nia al ala anna al maianite.		·
- 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	
channels		
- PRACH TFCS		Not Present
- CHOICE mode		TDD
-Individual UL CCTrCH information		
- TFCS ID		(This IE is repeated for TFC number.)
- Allowed Transport Format combination		0 to MaxTFCvalue-1 (MaxTFCValue is refer to
,		TS34.108 clause 6 Parameter Set.)
- PRACH TFCS		(This IE is repeated for TFC number.)

Information Element	Condition	Value/remark
- CHOICE TFCI signalling	Condition	Normal
- 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 UL TrCH information list		Not Present
Added or Reconfigured UL TrCH information list	A1	1
- Added or Reconfigured UL TrCH information		·
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport Format Information		
- RLC size		Reference to TS34.108 clause 6 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6 Parameter
- Transmission Time Interval		Set Not Present
- Transmission Time Interval - Number of Transport blocks		Not Present
- CHOICE Logical Channel List		ALL
- Semi-static Transport Format Information		ALL
- Transmission time interval		Reference to TS34.108 clause 6 Parameter
Transmission and morval		Set
- Type of channel coding		Reference to TS34.108 clause 6 Parameter
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Set
- Coding Rate		Reference to TS34.108 clause 6 Parameter
		Set
- Rate matching attribute		Reference to TS34.108 clause 6 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6 Parameter
CHOICE mode	A4 A2	Set TDD (no data)
	A1, A3 A1,A3	TDD (no data)
DL Transport channel information common for all transport channel	AT,AS	
- SCCPCH TFCS		Not Present
- CHOICE mode		TDD
- CHOICE DL parameters		Independent (Refer to TS34.108 clause 6)
Deleted DL TrCH information list	A1,A3	Not Present
Added or Reconfigured DL TrCH information list	1 , ,	1
- Added or Reconfigured DL TrCH information		
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Same as UL
<ul> <li>Uplink transport channel type</li> </ul>		DCH
- UL TrCH identity		1
- DCH quality target		Defended to TOO 1 100 1
- BLER Quality value	A4 A0	Reference to TS34.108 clause 6
Frequency info	A1,A3	Not Present
Maximum allowed UL TX power CHOICE channel requirement		30dBm
- Uplink DPCH power control info		Uplink DPCH info
- CHOICE mode		TDD
- UL Target SIR		Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info		Individually signalled
- CHOICE TDD option		1.28 Mcps
- TPC step size		1 dB
- Primary CCPCH Tx Power		Not Present
- CHOICE mode		TDD
- Uplink Timing Advance Control		Not Present
- UL CCTrCH List		_
- 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		THE INC.
		Deference to TC24 400 clause 6 Decemptor
- 2 <sub>nd</sub> interleaving mode		Reference to TS34.108 clause 6 Parameter
- TFCI coding		Set Reference to TS34.108 clause 6 Parameter Set
- Puncturing Limit		Reference to TS34.108 clause 6 Parameter Set
- Repetition Period		Reference to TS34.108 clause 6 Parameter Set
- Repetition Length		Reference to TS34.108 clause 6 Parameter Set
- First individual timeslot info		
- Timeslot number		The number of an uplink timeslot that has unassigned codes.
- TFCI existence		TRUE
<ul> <li>Midamble shift and burst type</li> </ul>		
- CHOICE TDD option		1.28 Mcps
- Midamble allocation mode		Default
- Midamble configuration		16
- CHOICE TDD option		1.28 Mcps TDD
- Modulation		QPSK
- SS-TPC Symbols		1
- CHOICE Mode		TDD
<ul> <li>First timeslot channelisation codes</li> </ul>		Repeated (1,2) for each channelisation code
		assigned in the slot to meet the needs of
		TS34.108 clause 6 Parameter Set.
- Channelisation code		(i/SF) where i denotes an unassigned code
- Orial incligation code		
		matching the SF specified in TS34.108 clause
		6 Parameter Set.
- CHOICE more timeslots		The presence of this IE depends upon the
		number of resources specified in TS34.108
		section 6 and the number of slots in which they
		are being assigned.
CHOICE Mode		TDD (no data)
Downlink information common for all radio links	A1,A3	(10 data)
	A1,A3	
- Downlink DPCH info common for all RL		NA CAC
- Timing indicator		Maintain
- CFN-targetSFN frame offset		Not Present
- Downlink DPCH power control information		
- CHOICE mode		TDD
- TPC step size		1 dB
- CHOICE TDD mode		1.28 Mcps
- TSTD indicator		TRUE
- Default DPCH Offset Value		Not Present
	A1 A2	NOCE 1636HL
Downlink information for per radio link list	A1,A3	
- Downlink information for each radio link		
- CHOICE mode		TDD
- Primary CCPCH info		
- CHOICE TDD option		1.28 Mcps
- TSTD indicator		TRUE
- Cell parameters ID		0
- Block STTD indicator		FALSE
- Downlink DPCH info for each RL		
- CHOICE mode		TDD
		100
- DL CCTrCH List		
- TFCS ID		1
- Time info		
- Activation time		(256+CFN-(CFN mod 8 + 8))mod 256
- Duration		Infinite
- Common timeslot info		
- 2 <sub>nd</sub> interleaving mode		Reference to TS34.108
- TFCI coding		TRUE
- Puncturing limit		Reference to TS34.108 clause 6 Parameter
i distaining minit		
1	Ī	set

Information Element	Condition	Value/remark
- Repetition period		1
- Repetition length		Empty
<ul> <li>Downlink DPCH timeslots and codes</li> </ul>		
<ul> <li>Individual timeslot info</li> </ul>		
- Timeslot number		The number of a downlink timeslot that has
		unassigned codes.
- TFCI existence		TRUE
<ul> <li>Midamble shift and burst type</li> </ul>		
- CHOICE TDD option		1.28 Mcps
-Midamble Allocation Mode		Default
- Midamble configuration		16
- Modulation		QPSK
- SS-TPC Symbols		1
<ul> <li>First timeslot channelisation codes</li> </ul>		
<ul> <li>First channelisation code</li> </ul>		(i/SF) where i is the lowest numbered code
		that is being assigned and SF is specified in
		TS34.108 clause 6 Parameter Set
- Last channelisation code		(j/SF) where j is the highest numbered code
		that is being assigned in the slot.
- Bitmap		Bitmap of the codes that are being assigned in
		the slot.
- CHOICE more timeslots		The presence of this IE depends upon whether
		the requirements of TS34.108 clause 6
		Parameter Set could be met by the codes that
		have been assigned in the first timeslot
- UL CCTrCH TPC List		Not Present
-SCCPCH information for FACH		Not Present

Con	ndition	Explanation
A1		This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is
		selected.
A3		This IE is needed for acknowledged mode.
NOTE:	NOTE: In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the	
	combination of UL and DL channels or test requirements.	

#### Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
Message Type	
U-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.
<ul> <li>Message authentication code</li> </ul>	SS calculates the value of MAC-I for this message and
	writes to this IE. The first/ leftmost bit of the bit string
	contains the most significant bit of the MAC-I.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
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 (3.84 Mcps TDD)

Information Element	Value/remark
Message Type	
Initial UE identity  RRC transaction identifier	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message Arbitrarily selects an integer between 0 and 3
Activation time	Not Present(Now)
New U-RNTI	Not Flesent(Now)
	0000 0000 0001B
- SRNC identity - S-RNTI	0000 0000 000 1B
New C-RNTI	
RRC State Indicator	Not Present
	CELL_DCH 9
UTRAN DRX cycle length coefficient Capability update requirement	9
- UE radio access FDD capability update	FALSE
requirement	PALSE
- UE radio access TDD capability update	TRUE
requirement	INOL
- 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     UL Transport channel identity	RACH Not Present
<u> </u>	Not Present
- Logical channel identity	Configured
- CHOICE RLC size list - RLC size index	Configured Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	1
- Downlink RLC logical channel info	'
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	

Information Element	Value/remark
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	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
<ul> <li>Last retransmission PDU poll</li> </ul>	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of RLC logical channels	1
<ul> <li>Uplink transport channel type</li> </ul>	DCH
- UL Transport channel identity	5
- Logical channel identity	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	000
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not i room
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
	1
- Number of RLC logical channels	
- Uplink transport channel type	DCH
-UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>	10
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	3
- Downlink RLC logical channel info	-
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3 (AM DOCULton NAS, DT Love priority)
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC

Information Element	Value/remark
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	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.)

#### Value/remark Information Element - UL TFCS - TFC subset Default value is the complete existing set of transport format combinations 0 to MaxTFCvalue-1 (MaxTFCValue is refer to - Allowed Transport Format combination TS34.108 clause 6 Parameter Set.) - PRACH TFCS (This IE is repeated for TFC number.) - CHOICE TFCI signalling Normal - TFCI Field 1 information - TFCS complete reconfigure information - CHOICE TFCS Size Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set - CTFC information Not Present - CHOICE mode **TDD** - Individual UL CCTrCH information Not Present Deleted TrCH information list Not Present Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type DCH - UL Transport channel identity 5 - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport Format Information According to TS34.108 clause 6 - RLC size - Number of TBs and TTI List (This IE is repeated for TFI number) - CHOICE mode TDD - 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 Uplink DPCH info CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode TDD - CHOICE TDD option 3.84 Mcps - UL target SIR Reference to TS34.108 Parameter set - CHOICE mode - CHOICE UL OL PC info Individually signalled 3.84 Mcps - CHOICE TDD option - 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

Information Element	Value/remark
- Duration	Infinite
- Common timeslot info	
- 2nd interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink DPCH timeslots and codes	Default is to use the old timeslots and codes
- CPCH SET Info	(no data)
Downlink information common for all radio links	(no data)
- Downlink DPCH info common for all RL	
- Timing Indication	Initialise
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps (no data)
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for per radio links list	.,
-Downlink information for each radio links	
- CHOICE mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
- Common timeslot info	
- 2 <sub>nd</sub> interleaving mode	Reference to TS34.108
- TFCI coding	TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1
- Repetition length	Empty
- Downlink DPCH timeslots and codes	
- CHOICE more timeslots	
- CHOICE TDD option	3.84 Mcps
- Timeslot number	The number of a downlink timeslot that has unassigned codes in a frame.
- Individual timeslot info	unassigned codes in a name.
- TFCI existence	TRUE
- Midamble shift and burst type	
- CHOICE TDD option	3.84 Mcps
-CHOICE Burst Type	
-Type 1	D ( )
-Midamble Allocation Mode	Default
- Midamble configuration burst type 1 and 3	As defined in 3GPP TS 25.221
- First timeslot channelisation codes	
- First channelisation code	(i/SF) where i is the lowest numbered code
i not onamionoation todo	that is being assigned and SF is specified in
	TS34.108 clause 6 Parameter Set
	[ (OE) 1
- Last channelisation code	(j/SF) where j is the highest numbered code

Information Element	Value/remark
	that is being assigned in the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether the requirements of TS34.108 clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present

Contents of RRC CONNECTION SETUP message: UM (1.28 Mcps TDD)

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not Present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	
- UE radio access FDD capability update	FALSE
requirement	
- UE radio access TDD capability update	TRUE
requirement	
- System specific capability update requirement list	Gsm
Signalling RB information to setup list	4 SRBs
- Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	OW NEO
- 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
- OE Transport charmer identity  - Logical channel identity	1
- CHOICE RLC size list	Configured
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Number of RLC logical channels - Downlink transport channel type	FACH
- DCH Transport channel identity	Not Present
- DL DCH Transport channel identity - DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
	I NOT I TESETIL
- 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
<ul> <li>Last retransmission PDU poll</li> </ul>	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
<ul> <li>Information for each multiplexing option</li> </ul>	2 RBMuxOptions
<ul> <li>RLC logical channel mapping indicator</li> </ul>	Not Present
- Number of RLC logical channels	1
<ul> <li>Uplink transport channel type</li> </ul>	DCH
- UL Transport channel identity	5
- Logical channel identity	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	000
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	Not i room
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
	1
- Number of RLC logical channels	
- Uplink transport channel type	DCH
-UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
<ul> <li>Downlink transport channel type</li> </ul>	DCH
<ul> <li>DL DCH Transport channel identity</li> </ul>	10
<ul> <li>DL DSCH Transport channel identity</li> </ul>	Not Present
<ul> <li>Logical channel identity</li> </ul>	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	3
- Downlink RLC logical channel info	-
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3 (AM DOCULton NAS, DT Love priority)
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC

Information Element	Value/remark
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	415
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	4
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1 DCH
- Downlink transport channel type	
DL DCH Transport channel identity     DL DSCH Transport channel identity	10 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.)

#### Value/remark Information Element - UL TFCS - TFC subset Default value is the complete existing set of transport format combinations 0 to MaxTFCvalue-1 (MaxTFCValue is refer to - Allowed Transport Format combination TS34.108 clause 6 Parameter Set.) - PRACH TFCS (This IE is repeated for TFC number.) - CHOICE TFCI signalling Normal - TFCI Field 1 information - TFCS complete reconfigure information - CHOICE TFCS Size Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set - CTFC information Not Present - CHOICE mode **TDD** - Individual UL CCTrCH information Not Present Deleted TrCH information list Not Present Added or Reconfigured UL TrCH information list - Added or Reconfigured UL TrCH information - Uplink transport channel type DCH - UL Transport channel identity 5 - CHOICE Transport channel type Dedicated transport channels - Dynamic Transport Format Information According to TS34.108 clause 6 - RLC size - Number of TBs and TTI List (This IE is repeated for TFI number) - CHOICE mode TDD - 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 Uplink DPCH info CHOICE channel requirement - Uplink DPCH power control info - CHOICE mode TDD - CHOICE TDD option 1.28 Mcps Reference to TS34.108 Parameter set - PRX<sub>PDPCHdes</sub> - CHOICE mode - CHOICE UL OL PC info Individually signalled - CHOICE TDD option 1.28 Mcps - TPC step size Not Present Not Present - Primary CCPCH Tx Power - Primary CCPCH Tx Power Not Present - Time info - Activation time (256+CFN-(CFN MOD 8 + 8))MOD 256

Information Element	Value/remark
- Duration	Infinite
- Common timeslot info	
- 2 <sub>nd</sub> interleaving mode	Reference to TS34.108 clause 6 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6 Parameter Set
- Uplink DPCH timeslots and codes	Default is to use the old timeslots and codes
- CPCH SET Info	(no data)
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing Indication	Initialise
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps
- TSTD indicator	TRUE
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for per radio links list	
-Downlink information for each radio links	TDD
- 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	TDD
- 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	
- CHOICE more timeslots	
- CHOICE TDD option	1.28 Mcps
- Timeslot number	The number of a downlink timeslot that has
	unassigned codes in a subframe.
- Individual timeslot info	TOUE
- TFCI existence	TRUE
- Midamble shift and burst type - CHOICE TDD option	1.28 Mcps
-CHOICE Burst Type	1.20 111000
-Midamble Allocation Mode	Default
- Midamble configuration	As defined in 3GPP TS 25.221
- First timeslot channelisation codes	
- First channelisation code	(i/SF) where i is the lowest numbered code
	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 Grannensation 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

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 SECURITY MODE COMMAND message: AM

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Information Element	Value/remark		
Message Type			
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3		
Integrity check info	0		
- Message authentication code	Set to an arbitrarily selected 32-bits integer. The first/		
	leftmost bit of the bit string contains the most significant		
	bit of the MAC-I.		
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15		
Security capability			
- Ciphering algorithm capability			
- UEA0	If the UE has indicated support for ciphering algorithm		
	UEA0 in the IE "security capability" in the RRC		
	CONNECTION SETUP COMPLETE message, this IE is		
	set to TRUE.		
- UEA1	If the UE has indicated support for ciphering algorithm		
	UEA1 in the IE "security capability" in the RRC		
	CONNECTION SETUP COMPLETE message, this IE is		
	set to TRUE.		
- Spare	Spare 2-15 = FALSE		
- Integrity protection algorithm capability	000000000000010B (UIA1)		
- UIA1	TRUE		
- Spare	Spare 0 and Spare 2-15 = FALSE		
Ciphering mode info	This presence of this IE is dependent on IXIT statements		
	in TS 34.123-2. If ciphering is indicated to be active, this		
	IE present with the values of the sub IEs as stated below.		
	Else, this IE is omitted.		
- Ciphering mode command	Start/restart		
- Ciphering algorithm	UEA0 or UEA1. The indicated algorithm must be one of		
	the algorithms supported by the UE as indicated in the IE		
	"security capability" in the RRC CONNECTION SETUP		
	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		
- Downlink integrity protection activation info	Not Present		
- Integrity protection algorithm	UIA1		
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH		
CN domain identity	CS or PS		
UE system specific security capability	Not Checked		

## Annex A (informative): Void

## Annex B (informative): RAB combinations for Rel-5

This annex contains information intented to be included in a future TS 34.108 Release 5. For practical reasons, it will be maintained in this Release 4 until T1 agrees to publish the Release 5 version based on the quantity of material to justify its creation.

It should be noted that the parameters of the RAB combinations were approved by RAN1 and RAN 2 and that T1 agreed that the RABs should be subjected to test coverage at the appropriate time. The fact that this annex is informative does not in any way reduce the validity of the RABs.

For ease of administration, the framework of section 6.10.2 is provided with the changes to that section with appropriate numbering in order that it can be merged into a future Release 5 version of TS 34.108.

#### 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.

37	Conversational	N/A	UL:42.8 DL:42.8	PS
38	Conversational	Speech	UL:(12.65 8.85 6.6)	CS
			DL:(12.65 8.85 6.6)	

Table 6.10.2.1.2: Signalling RBs

#	Maximum rate, kbps	Logical channel	PhyCh onto which SRBs are mapped
9	DL: 0.15	DCCH	DPCH

#### 6.10.2.2 Combinations of RABs and Signalling RBs

#### Combinations on DPCH

- 59) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB
  - + Interactive or background / UL:16 DL:16 kbps / PS RAB
  - + Interactive or background / UL:16 DL:16 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 60) Conversational / Speech / UL:42.8 DL:42.8 kbps / PS RAB
  - + Interactive or background / UL:16 DL:16 kbps / PS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 62) Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB
  - + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH.

6.10.2.4.1.59 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.59.1 Uplink

6.10.2.4.1.59.1.1 Transport channel parameters

6.10.2.4.1.59.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

Higher layer	RAB/S	ignalling RB	RAB
PDCP	PDCP	header size, bit	8
RLC	Logical channel type		DTCH
	RLC m	node	UM
	Payloa	ad sizes, bit	920, 304, 96
	Max da	ata rate, bps	46000
	UMD F	PDU header, bit	8
MAC	MAC h	neader, bit	0
	MAC r	nultiplexing	N/A
Layer 1	TrCH type		DCH
	TB siz	es, bit	928, 312, 104
	TFS	TF0, bits	0x928
		TF1, bits	1x104
		TF2, bits	1x312
		TF3, bits	1x928
	TTI, m	S	20
	Coding type CRC, bit		TC
			16
		umber of bits/TTI after channel coding	2844
	Uplink	: Max number of bits/radio frame before rate matching	1422
	RM att	ribute	180-220

6.10.2.4.1.59.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB + UL:16 kbps / PS RAB

Higher Layer	RAB/Signalling RB	RAB	RAB
RLC	Logical channel type	DTCH	DTCH
	RLC mode	AM	AM
	Payload sizes, bit	320	320
	Max data rate, bps	16000	16000
	AMD PDU header, bit	16	16
MAC	MAC header, bit	4	4
	MAC multiplexing	2 logical chann	el multiplexing
Layer 1	TrCH type	DCH	
	TB sizes, bit	340	
	TFS TF0, bits	0x340	
	TF1, bits	1x340	
	TF2, bits	2X340	
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	2148	
	Uplink: Max number of bits/radio frame	537	
	before rate matching		
	RM attribute	135-	·175

6.10.2.4.1.59.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.59.1.1.4 TFCS

TFCS size	24	
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=	
	(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)	
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1, TF1, TF0), (TF1, TF1, TF1), (TF1, TF2, TF0), (TF1, TF2, TF1)	
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1)	
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1)	

#### 6.10.2.4.1.59.1.2 Physical channel parameters

DPCH	Min spreading factor	16
Uplink	Max number of DPDCH data bits/radio	2400
	frame	
	Puncturing Limit	0.76

6.10.2.4.1.59.2 Downlink

6.10.2.4.1.59.2.1 Transport channel parameters

#### 6.10.2.4.1.59.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

Higher layer	RAB/Signalling RB		RAB
PDCP	PDCP header size, bit		8
RLC	Logical channel type		DTCH
	RLC m	node	UM
	Payloa	nd sizes, bit	920, 304, 96
	Max da	ata rate, bps	46000
	UMD F	PDU header, bit	8
MAC	MAC h	eader, bit	0
	MAC n	nultiplexing	N/A
Layer 1	TrCH type		DCH
	TB size	es, bit	928, 312, 104
	TFS	TF0, bits	0x928
		TF1, bits	1x104
		TF2, bits	1x312
		TF3, bits	1x928
	TTI, m	S	20
	Coding type		TC
	CRC, bit		16
	Max no	umber of bits/TTI after channel coding	2844
	RM att	ribute	180-220

6.10.2.4.1.59.2.1.2 Transport channel parameters for Interactive / DL:16kbps / PS RAB + DL:16 kbps / PS RAB

Higher Layer	RAB/Signalling RB		RAB	RAB
RLC	Logical channel type		DTCH	DTCH
	RLC mod	de	AM	AM
	Payload	sizes, bit	320	320
	Max data	a rate, bps	16000	16000
	AMD PD	U header, bit	16	16
MAC	MAC hea	ader, bit	4	4
	MAC multiplexing		2 logical channel multiplexing	
Layer 1	TrCH typ	e	DCH	
	TB sizes		340	
	TFS	TF0, bits	0x340	
		TF1, bits	1x340	
		TF2, bits	2X3	40
	TTI, ms	·	40	
	Coding t	ype	TC	
	CRC, bit		16	
	Max num	nber of bits/TTI after channel coding	214	18
	RM attrib	oute	135-	175

6.10.2.4.1. 59.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.59.2.1.4 TFCS

TFCS size	24
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps+16kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF1), (TF0, TF1), (TF0, TF1, TF0), (TF0, TF1, TF1), (TF0, TF2, TF0), (TF0, TF2, TF1)
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2,TF1, TF0), (TF2, TF1,TF1), (TF2,TF2, TF0), (TF2,TF2, TF1)
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3,TF1, TF0), (TF3, TF1,TF1), (TF3,TF2, TF0), (TF3,TF2, TF1)

#### 6.10.2.4.1.59.2.2 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

6.10.2.4.1.60 Conversational / speech / UL:42.8 DL:42.8 kbps / PS RAB + Interactive / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.60.1 Uplink

6.10.2.4.1.60.1.1 Transport channel parameters

#### 6.10.2.4.1.60.1.1.1 Transport channel parameters for Conversational / speech / UL:42.8 kbps / PS RAB

Higher layer	RAB/Signalling RB	RAB
PDCP	PDCP header size, bit	8
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	920, 304, 96
	Max data rate, bps	46000
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	928, 312, 104
	TFS TF0, bits	0x928
	TF1, bits	1x104
	TF2, bits	1x312
	TF3, bits	1x928
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	2844
	Uplink: Max number of bits/radio frame before rate matching	1422
	RM attribute	180-220

6.10.2.4.1.60.1.1.2 Transport channel parameters for Interactive / UL:16kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1

6.10.2.4.1.60.1.1.3 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1

#### 6.10.2.4.1.60.1.1.4 TFCS

TFCS size	24
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF2, TF1)
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3, TF1, TF0), (TF3, TF1, TF1), (TF3, TF2, TF0), (TF3, TF2, TF1)

#### 6.10.2.4.1.60.1.2 Physical channel parameters

DPCH	Min spreading factor	16
Uplink	Max number of DPDCH data bits/radio	2400
	frame	
	Puncturing Limit	0.76

6.10.2.4.1.60.2 Downlink

6.10.2.4.1.60.2.1 Transport channel parameters

6.10.2.4.1.60.2.1.1 Transport channel parameters for Conversational / speech / DL:42.8 kbps / PS RAB

Higher layer	RAB/S	Signalling RB	RAB
PDCP	PDCP	header size, bit	8
RLC	Logica	Il channel type	DTCH
	RLC m	node	UM
	Payloa	ad sizes, bit	920, 304, 96
	Max da	ata rate, bps	46000
	UMD F	PDU header, bit	8
MAC	MAC h	neader, bit	0
	MAC r	nultiplexing	N/A
Layer 1	TrCH type		DCH
	TB siz	es, bit	928, 312, 104
	TFS	TF0, bits	0x928
		TF1, bits	1x104
		TF2, bits	1x312
		TF3, bits	1x928
	TTI, m	S	20
	Coding type		TC
	CRC, bit		16
	Max n	umber of bits/TTI after channel coding	2844
	RM att	tribute	180-220

6.10.2.4.1.60.2.1.2 Transport channel parameters for Interactive / DL:16kbps PS RAB

See clause 6.10.2.4.1.23b.2.1.1

6.10.2.4.1.60.2.1.3 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.60.2.1.4 TFCS

TFCS size	24
TFCS	(42.8 kbps Conversational RAB, Interactive 16kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF0, TF0, TF1), (TF0,TF1, TF0),(TF0, TF1,TF1), (TF0,TF2, TF0), (TF0,TF2, TF1)
	(TF1, TF0, TF0), (TF1, TF0, TF1), (TF1,TF1, TF0), (TF1, TF1,TF1), (TF1,TF2, TF0), (TF1,TF2, TF1)
	(TF2, TF0, TF0), (TF2, TF0, TF1), (TF2, TF1, TF0), (TF2, TF1, TF1), (TF2, TF2, TF0), (TF2, TF1)
	(TF3, TF0, TF0), (TF3, TF0, TF1), (TF3, TF1, TF0), (TF3, TF1, TF1), (TF3, TF2, TF0), (TF3, TF2, TF1)

6.10.2.4.1.60.2.2 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

6.10.2.4.1.62 Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH

6.10.2.4.1.62.1.1 Transport channel parameters

6.10.2.4.1.62.1.1.1 Transport channel parameters for Conversational / speech / UL: (12.65 8.85 6.6) kbps / CS RAB

Higher Layer	RAB/Signalling RB	RAB subflow #1	RAB subflow #2	
RLC	Logical channel type	DTC	DTCH	
	RLC mode	TM	TM	
	Payload sizes, bit	40, 54, 64, 72 (alt. 0, 40, 54, 64, 72)	78, 113, 181	
	Max data rate, bps	1265	60	
	TrD PDU header, bit	0		
MAC	MAC header, bit	0		
	MAC multiplexing	N/A		
Layer 1	TrCH type	DCH	DCH	
	TB sizes, bit	40, 54, 64, 72	78, 113, 181	
		(alt. 0, 40, 54, 64, 72)		
	TFS TF0, bits	0x72(alt. 1x0) (note)	0x181	
	TF1, bits	1x40	1x78	
	TF2 bits	1x54	1x113	
	TF3, bits	1x64	1x181	
	TF4, bits	1x72	N/A	
	TTI, ms	20	20	
	Coding type	CC 1/3	CC 1/3	
	CRC, bit	12	N/A	
	Max number of bits/TTI after channel coding	276	567	
	Uplink: Max number of bits/radio frame before rate matching	138	284	
	RM attribute	180-220	170-210	

#### 6.10.2.4.1.62.1.1.2 Transport channel parameters for UL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.1.1.1.

#### 6.10.2.4.1.62.1.1.3 TFCS

TFCS size	10
TFCS	(RAB subflow#1, RAB subflow#2, DCCH)=
	(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF4,TF3,TF0),
	(TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1), (TF4,TF3,TF1)

#### 6.10.2.4.1.62.1.1.4 TFC subset list

TFC subset list	3
size	
TFC subset list	0 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1)},
	1 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1)},
	2 = {(TF0,TF0,TF0), (TF1,TF0,TF0), (TF2,TF1,TF0), (TF3,TF2,TF0), (TF4,TF3,TF0), (TF0,TF0,TF1), (TF1,TF0,TF1), (TF2,TF1,TF1), (TF3,TF2,TF1), (TF4,TF3,TF1)}

#### 6.10.2.4.1.62.1.2 Physical channel parameters

DPCH	Min spreading factor	64
Uplink	Max number of DPDCH data bits/radio	600
	frame	
	Puncturing Limit	0.84

6.10.2.4.1.62.2 Downlink

6.10.2.4.1.62.2.1 Transport channel parameters

### 6.10.2.4.1.62.2.1.1 Transport channel parameters for Conversational / speech / DL: (12.65 8.85 6.6) kbps / CS RAB

Higher Layer	RAB/Signalling RB		RAB subflow #1	RAB subflow #2
RLC	Logical cha	nnel type	DTO	CH
	RLC mode	•	TM	TM
	Payload siz	es, bit	0, 40, 54, 64, 72	78, 113, 181
	Max data ra		12 6	550
	TrD PDU he	eader, bit	0	
MAC	MAC heade	er, bit	0	
	MAC multiplexing		N/.	A
Layer 1	TrCH type		DCH	DCH
•	TB sizes, bit		0, 40, 54, 64, 72	78, 113, 181
	TFS	TF0, bits	1x0 (note 2)	0x181
	(note 1)	TF1, bits	1x40	1x78
		TF2, bits	1x54	1x113
		TF3, bits	1x64	1x181
		TF4, bits	1x72	N/A
	TTI, ms		20	20
	Coding type	)	CC 1/3	CC 1/3
	CRC, bit		12	N/A
	Max numbe	r of bits/TTI after ding	276	567
	RM attribute	9	180-220	170-210

NOTE 1: The TrCH corresponding to RAB subflow #1 should be used as the guiding TrCH, (see clause 4.3 in TS 25 212)

NOTE 2: CRC parity bits are to be attached to RAB subflow#1 any time since number of TrBlks are 1 even if there is no data on RAB subflow#1 (see clause 4.2.1.1 in TS 25.212.).

#### 6.10.2.4.1.62.2.1.2 Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1

#### 6.10.2.4.1.62.2.1.3 Transport channel parameters for DL:0.15 kbps SRB#5 for DCCH

Higher layer	RAB/signalling RB		SRB#5
	User of Radio Bearer		RRC
RLC	Logical channel type	9	DCCH
	RLC mode		TM
	Payload sizes, bit		3
	Max data rate, bps		150
	TrD PDU header, b	t	0
MAC	MAC header, bit		0
	MAC multiplexing		N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		3 (alt 0, 3) (note)
	TFS	TF0, bits	0x3 (alt 1x0) (note)
		TF1, bits	1x3
	TTI, ms		20
	Coding type		CC 1/3
	CRC, bit		8
	Max number of bits/TTI before rate		57
	matching		
	RM attribute		155-256
NOTE: altern	ative parameters enable	the measurement "tr	ansport channel BLER" in the UE.

#### 6.10.2.4.1.62.2.1.4 TFCS

TFCS size	20
TFCS	(RAB subflow#1, RAB subflow#2, DCCH 3.4, DCCH 0.15)=
	(TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0), (TF2,TF1,TF0,TF0), (TF3,TF2,TF0,TF0),
	(TF4,TF3,TF0,TF0), (TF0,TF1,TF0), (TF1,TF0,TF1,TF0), (TF2,TF1,TF1,TF0),
	(TF3,TF2,TF1,TF0), (TF4,TF3,TF1,TF0), (TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF1),
	(TF2,TF1,TF0,TF1), (TF3,TF2,TF0,TF1), (TF4,TF3,TF0,TF1), (TF0,TF0,TF1,TF1),
	(TF1,TF0,TF1,TF1), (TF2,TF1,TF1,TF1), (TF3,TF2,TF1,TF1), (TF4,TF3,TF1,TF1)

#### 6.10.2.4.1.62.2.2 Physical channel parameters

DPCH	DTX 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

# Annex C (informative): Change history

15t-    17-09   17-000131   001   RRC Message Contents: RLCSize   C. 3.0.1   3.1.0   71-000190     17-09   17-000131   002   RRC Message Contents: RLCParam   C. 3.0.1   3.1.0   71-000190     17-09   17-000131   003   RRC Message Contents: RLCParam   C. 3.0.1   3.1.0   71-000190     17-09   17-000131   004   RRC Message Contents: RLCParam   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   004   RRC Message Contents: RLCParam   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   004   RRC Message Contents: Relidentity   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   005   RRC Message Contents: Relidentity   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   007   RRC Message Contents: Religional   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   009   RRC Message Contents: Religional   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   009   RRC Message Contents: Religional   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   010   RRC Message Contents: CopheringAnditegrity   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   011   RRC Message Contents: CompressedMode   C. 3.0.1   3.1.0   71-000191     17-09   17-000131   012   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000191     17-09   17-000131   013   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   014   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   015   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   016   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   015   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   015   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   015   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   015   RRC Message Contents: PhyCH   D. 3.0.1   3.1.0   71-000201     17-09   17-000131   015   RRC Message Contents: PhyCH   D. 3.0.1   3.0.1   3.0.1   3.0.1     17-000101	Meeti ng-	Doc-1st-Level	CR	Rev	Subject	Cat	Version- Current	Version -New	Doc-2nd- Level
P-99   P-000131   001   RRC Message Contents: RICSize   C   3.0.1   3.1.0   T-000190   T-090   T-090131   002   RRC Message Contents: RICSize   C   3.0.1   3.1.0   T-000190   T-090131   003   RRC Message Contents: RICParam   C   3.0.1   3.1.0   T-000190   T-090131   004   RRC Message Contents: RIGHT   C   3.0.1   3.1.0   T-000190   T-090131   005   RRC Message Contents: RIGHT   C   3.0.1   3.1.0   T-000190   T-090131   006   RRC Message Contents: RIGHT   C   3.0.1   3.1.0   T-000190   T-090131   006   RRC Message Contents: UFCapability   C   3.0.1   3.1.0   T-000190   T-090131   006   RRC Message Contents: LECapability   C   3.0.1   3.1.0   T-000190   T-090131   007   RRC Message Contents: PagingCause   C   3.0.1   3.1.0   T-000190   T-090131   008   RRC Message Contents: PagingCause   C   3.0.1   3.1.0   T-000190   T-090131   009   RRC Message Contents: PagingCause   C   3.0.1   3.1.0   T-000190   T-090131   001   RRC Message Contents: RICINT   C   3.0.1   3.1.0   T-000190   T-090131   001   RRC Message Contents: RICINT   C   3.0.1   3.1.0   T-000190   T-090131   001   RRC Message Contents: RICINT   C   3.0.1   3.1.0   T-000190   T-090131   001   RRC Message Contents: SIB   C   3.0.1   3.1.0   T-000190   T-090131   001   RRC Message Contents: SIB   C   3.0.1   3.1.0   T-000200   T-090131   001   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T-000200   T-090131   001   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T-000200   T-090131   001   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T-000200   T-090131   001   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T-000200   T-090131   001   T-000131   001   T-0000131   001   T-0000131   001	1st-								
TP-90   TP-000131   001   RRC Message Contents: RLCSize   C   3.0.1   3.1.0   T1-000191   T1-009   T1-000131   003   RRC Message Contents: PCPreamble   C   3.0.1   3.1.0   T1-000191   T1-009   T1-000131   004   RRC Message Contents: PCPreamble   C   3.0.1   3.1.0   T1-000192   T1-000131   005   RRC Message Contents: REMBentity   C   3.0.1   3.1.0   T1-000193   T1-000193   005   RRC Message Contents: TCHParam   C   3.0.1   3.1.0   T1-000194   T1-0001903   005   RRC Message Contents: TCHParam   C   3.0.1   3.1.0   T1-000194   T1-0001903   007   RRC Message Contents: REMBenting   C   3.0.1   3.1.0   T1-000195   T1-000191					Approval of the specification		2.0.0	3.0.0	
TP-09   TP-000131   003	TP-09	TP-000131	001		RRC Message Contents: RLCSize	С	3.0.1	3.1.0	T1-000190
TP-09   TP-000131   003	TP-09	TP-000131	002		RRC Message Contents: RLCParam	С	3.0.1	3.1.0	T1-000191
TP-09   TP-000131   004   RRC Message Contents: RICHParam   C   3.0.1   3.1.0   T1-000193   TP-09   TP-000131   006   RRC Message Contents: UECapability   C   3.0.1   3.1.0   T1-000196   TP-09   TP-000131   007   RRC Message Contents: UECapability   C   3.0.1   3.1.0   T1-000196   TP-09   TP-000131   008   RRC Message Contents: REMMaping   C   3.0.1   3.1.0   T1-000196   TP-09   TP-000131   008   RRC Message Contents: PagingCause   C   3.0.1   3.1.0   T1-000196   TP-09   TP-000131   010   RRC Message Contents: ClipheningAndIntegrity   C   3.0.1   3.1.0   T1-000196   TP-09   TP-000131   010   RRC Message Contents: Richer   C   3.0.1   3.1.0   T1-000196   TP-09   TP-000131   010   RRC Message Contents: ClipheningAndIntegrity   C   3.0.1   3.1.0   T1-0002019   TP-000131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-0002019   TP-000131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-0002019   TP-000131   014   RRC Message Contents: PhyCH   D   D   3.0.1   3.1.0   T1-0002019   TP-000131   014   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T1-0002019   TP-000131   016   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T1-0002019   TP-000131   016   RRC Message Contents: DPCHFrameOffset   C   3.0.1   3.1.0   T1-0002019   TP-000131   016   RRC Message Contents: DPCHFrameOffset   C   3.0.1   3.1.0   T1-0002019   TP-000131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-0002019   TP-000131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-0002019   TP-000131   018   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000219   TP-000131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000219   TP-000131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000219   TP-000150   029   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000229   TP-1000215   024   Downlink signal conditions and propagation conditions   D   3.1.0   3	TP-09	TP-000131	003			С		3.1.0	T1-000192
TP-09   TP-000131   005   RRC Message Contents: TCECapability   C   3.0.1   3.1.0   TT-000194   TP-09   TP-001031   006   RRC Message Contents: REMapping   C   3.0.1   3.1.0   TT-000196   TP-09   TP-001031   008   RRC Message Contents: REMapping   C   3.0.1   3.1.0   TT-000196   TP-09   TP-001031   009   RRC Message Contents: Rejargio-Cause   C   3.0.1   3.1.0   TT-000197   TP-09   TP-001031   009   RRC Message Contents: CipheringAndIntegrity   C   3.0.1   3.1.0   TT-000197   TP-09   TP-001031   011   RRC Message Contents: CipheringAndIntegrity   C   3.0.1   3.1.0   TT-000197   TP-09   TP-001031   011   RRC Message Contents: CompressedMode   C   3.0.1   3.1.0   TT-000207   TP-09   TP-001031   013   RRC Message Contents: CompressedMode   C   3.0.1   3.1.0   TT-000207   TP-09   TP-001031   013   RRC Message Contents: SIB   C   3.0.1   3.1.0   TT-000207   TP-09   TP-001031   013   RRC Message Contents: PhyCH   D   3.0.1   3.1.0   TT-000207   TP-09   TP-001031   015   RRC Message Contents: TRCS   C   3.0.1   3.1.0   TT-000207   TP-09   TP-001031   015   RRC Message Contents: TRCS   C   3.0.1   3.1.0   TT-000207   TP-09   TP-001031   015   RRC Message Contents: TRCS   C   3.0.1   3.1.0   TT-000207   TP-09   TP-001031   017   Test USIM Parameters   F   3.0.1   3.1.0   TT-000207   TP-09   TP-000131   017   Test USIM Parameters   F   3.0.1   3.1.0   TT-000207   TP-09   TP-000131   018   Reference Redulber Research Re	TP-09	TP-000131	004			С	3.0.1	3.1.0	T1-000193
TP-09   TP-00131   006   RRC Message Contents: UECapability   C   3.0.1   3.1.0   T1-000195   TP-09   TP-00131   007   RRC Message Contents: Redimpling   C   3.0.1   3.1.0   T1-000197   TP-09   TP-00131   008   RRC Message Contents: PagingCause   C   3.0.1   3.1.0   T1-000197   TP-09   TP-00131   010   RRC Message Contents: ClipheringAndIntegrity   C   3.0.1   3.1.0   T1-000198   TP-09   TP-00131   010   RRC Message Contents: RicipheringAndIntegrity   C   3.0.1   3.1.0   T1-000198   TP-09   TP-00131   010   RRC Message Contents: RicipheringAndIntegrity   C   3.0.1   3.1.0   T1-000199   TP-00131   012   RRC Message Contents: CompressedMode   C   3.0.1   3.1.0   T1-000201   TP-09   TP-00131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-000201   TP-09   TP-00131   014   RRC Message Contents: PhyCH   D   3.0.1   3.1.0   T1-000201   TP-09   TP-00131   014   RRC Message Contents: PhyCH   D   3.0.1   3.1.0   T1-000201   TP-09   TP-00131   016   RRC Message Contents: PhyCH   TP-09   TP-00131   016   RRC Message Contents: PCHFrameOffset   C   3.0.1   3.1.0   T1-000201   TP-09   TP-00131   016   RRC Message Contents: DPCHFrameOffset   C   3.0.1   3.1.0   T1-000201   TP-09   TP-00131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-000201   TP-09   TP-00131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-000164   TP-09   TP-00131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000201   TP-00   TP-000131   020   Common generic procedure for AS testing   F   3.0.1   3.1.0   T1-000201   TP-00   TP-00015   022   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000201   TP-00015   025   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000201   TP-00015   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000201   TP-00015   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000201	TP-09	TP-000131	005			С			
TP-99   TP-000131   007   RRC Message Contents: RBMapping   C   3.0.1   3.1.0   T1-000198   RRC Message Contents: PagingCause   C   3.0.1   3.1.0   T1-000198   TP-99   TP-000131   009   RRC Message Contents: CipheringAndIntegrity   C   3.0.1   3.1.0   T1-000198   TP-99   TP-000131   011   RRC Message Contents: RLCInfo   C   3.0.1   3.1.0   T1-000198   TP-99   TP-000131   011   RRC Message Contents: RLCInfo   C   3.0.1   3.1.0   T1-000209   TP-99   TP-000131   013   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-000209   TP-99   TP-000131   013   RRC Message Contents: RSIB   C   3.0.1   3.1.0   T1-000209   TP-99   TP-000131   015   RRC Message Contents: Resurement   C   3.0.1   3.1.0   T1-000209   TP-99   TP-000131   015   RRC Message Contents: TFCS   C   3.0.1   3.1.0   T1-000209   TP-99   TP-000131   015   RRC Message Contents: DPCHF rameOffset   C   3.0.1   3.1.0   T1-000209   TP-99   TP-000131   017   Test USIM Parameters   F   3.0.1   3.1.0   T1-000209   TP-99   TP-000131   017   Test USIM Parameters   F   3.0.1   3.1.0   T1-000215   TP-99   TP-000131   018   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000216   TP-99   TP-000131   020   TDD Single mode   F   3.0.1   3.1.0   T1-000216   TP-99   TP-000151   021   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000209   TP-10   TP-000215   022   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000308   TP-10   TP-000215   023   Minimum Parformance Levels   Minimum Parformance Levels   F   3.1.0   3.2.0   T1-000308   TP-10   TP-000215   025   Updating 94.10 94.3 1.0 to TDD single mode   F   3.1.0   3.2.0   T1-000216   TP-10   TP-000215   026   Minimum Parformance Levels   TP-10   TP-000215   027   Updates to the default message contents in clause 9   C   3.1.0   3.2.0   T1-000308   T1-000308   T1-000308   T1-000308   T1-00030									
TP-09   TP-000131   008   RRC Message Contents: Paging/Cause   C   3.0.1   3.1.0   T1-000198   TP-09   TP-000131   010   RRC Message Contents: CipheringAndIntegrity   C   3.0.1   3.1.0   T1-00198   TP-09   TP-000131   010   RRC Message Contents: RLCInfo   C   3.0.1   3.1.0   T1-00198   TP-09   TP-000131   012   RRC Message Contents: CompressedMode   C   3.0.1   3.1.0   T1-00197   TP-09   TP-000131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-002017   TP-09   TP-000131   014   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-002017   TP-09   TP-000131   015   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T1-002017   TP-09   TP-000131   016   RRC Message Contents: PPCHFrameOffset   C   3.0.1   3.1.0   T1-002018   TP-09   TP-000131   016   RRC Message Contents: PPCHFrameOffset   C   3.0.1   3.1.0   T1-002018   TP-09   TP-000131   017   Test USIM Parameters   F   3.0.1   3.1.0   T1-002018   TP-09   TP-000131   017   Test USIM Parameters   F   3.0.1   3.1.0   T1-002018   TP-09   TP-000131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-002018   TP-09   TP-000131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-002018   TP-00   TP-000131   020   TDD Single mode   F   3.0.1   3.1.0   T1-002018   TP-101   TP-00215   021   Common generic procedure for AS testing   B   3.1.0   3.2.0   T1-00303   TP-101   TP-00215   022   Requirements for the system simulator for support of Tcell   TP-00215   024   Requirements for the system simulator for support of Tcell   TP-00215   025   Updates to System Information Block (SIB)   Application of integrity mode protection to signaling   TP-101   TP-000215   025   Updates to System Information Block (SIB)   Application of integrity mode protection to signaling   TP-101   TP-000215   027   Application of integrity mode protection to signaling   TP-101   TP-000215   028   Updates to System Information parameters   TP-101   TP-000215   029   Application of ciphering during conformance testing   C   3.1.0   3.2.0   T1-									
TP-09   TP-000131   009   RRC Message Contents: Riching   C   3.0.1   3.1.0   T1-000199   TP-09   TP-000131   011   RRC Message Contents: Riching   C   3.0.1   3.1.0   T1-000290   TP-09   TP-000131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   013   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   013   RRC Message Contents: PhyCH   D   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   015   RRC Message Contents: PhyCH   D   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   015   RRC Message Contents: FFCS   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   016   RRC Message Contents: FFCS   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   016   RRC Message Contents: FFCS   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-000210   TP-09   TP-000131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-000210   TP-09   TP-000131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000200   TP-10   TP-000131   020   TDD Single mode   F   3.0.1   3.1.0   T1-000200   TP-10   TP-000131   020   TDD Single mode   F   3.0.1   3.1.0   T1-000200   TP-10   TP-000215   021   Common generic procedure for AS testing   B   3.1.0   3.2.0   T1-000300   TP-10   TP-000215   022   Dyadaira glash alto signal conditions and propagation conditions   D   3.1.0   3.2.0   T1-000300   TP-10   TP-000215   024   Dyadaira glash alto signal conditions and propagation conditions   D   3.1.0   3.2.0   T1-000200   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000200   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000200   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000200   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3									
TP-09   TP-000131   010   RRC Message Contents: RLCInfo   C   3.0.1   3.1.0   T1-000120   TP-09   TP-000131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   014   RRC Message Contents: PhyCH   D   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   014   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   016   RRC Message Contents: TFCS   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   016   RRC Message Contents: TFCS   C   3.0.1   3.1.0   T1-000200   TP-09   TP-000131   016   RRC Message Contents: DPCHFrameOffset   C   3.0.1   3.1.0   T1-000205   TP-09   TP-000131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-000205   TP-09   TP-000131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-000140   TP-09   TP-000131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000215   TP-09   TP-000131   020   TDD Single mode   F   3.0.1   3.1.0   T1-000216   TP-10   TP-000215   021   TDD Single mode   F   3.0.1   3.1.0   T1-000216   TP-10   TP-000215   022   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000303   TP-10   TP-000215   024   Downlink signal conditions and propagation conditions   D   3.1.0   3.2.0   T1-000304   TP-10   TP-000215   025   Updates to System Information Block (SIB) and Master   TP-10   TP-000215   025   Updates to System Information Block (SIB) and Master   TP-10   TP-000215   027   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000280   TP-10   TP-000215   028   Updates to System Information parameters (34.108 clause 7.2)   F   3.1.0   3.2.0   T1-000280   TP-10   TP-000215   029   Application of ciphering during conformance testing   C   3.1.0   3.2.0   T1-000280   TP-11   TP-01018   034   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010									
TP-09   TP-000131   011   RRC Message Contents: CompressedMode   C   3.0.1   3.1.0   T1-000201   TP-09   TP-000131   012   RRC Message Contents: SIB   C   3.0.1   3.1.0   T1-000201   TP-09   TP-000131   013   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T1-000201   TP-09   TP-000131   015   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T1-000203   TP-09   TP-000131   015   RRC Message Contents: TFCS   C   3.0.1   3.1.0   T1-000203   TP-09   TP-000131   016   RRC Message Contents: TFCS   C   3.0.1   3.1.0   T1-000204   TP-09   TP-000131   017   Test USIM Parameters   F   3.0.1   3.1.0   T1-000204   TP-09   TP-000131   018   Correction to definition of the test algorithm for   F   3.0.1   3.1.0   T1-000215   TP-09   TP-000131   020   TDD Single mode   F   3.0.1   3.1.0   T1-000215   TP-09   TP-000131   020   TDD Single mode   F   3.0.1   3.1.0   T1-000216   TP-101   TP-000215   021   Common generic procedure for AS testing   B   3.1.0   3.2.0   T1-000306   TP-10   TP-000215   022   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000306   TP-10   TP-000215   024   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   T1-000236   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   026   Application of contents in clause 9   C   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   026   Application of contents in clause 9   C   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   027   Updates to the default message contents in clause 9   C   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   028   Updates to System Information parameters   C   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   030   Addition for System Information parameters   C   3.1.0   3.2.0   T1-00028									
TP-09   TP-000131   012   RRC Message Contents: SIB									
TP-99   TP-000131   013									
TP-99   TP-000131   014   RRC Message Contents: Measurement   C   3.0.1   3.1.0   T1-000204									
TP-99   TP-000131   015   RRC Message Contents: TPCS   C   3.0.1   3.1.0   T1-000204									
TP-09         TP-000131         016         RRC Message Contents: DPCHFrameOffset         C         3.0.1         3.1.0         T1-000215           TP-09         TP-000131         018         Correction to definition of the test algorithm for F         3.0.1         3.1.0         T1-000215           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         T1-000224           TP-10         TP-000215         021         Common geneir procedure for AS testing         B         3.1.0         3.2.0         T1-000220           TP-10         TP-000215         022         Requirements for the system simulator for support of Tcell parameter         F         3.1.0         3.2.0         T1-000303           TP-10         TP-000215         023         Minimum Performance Levels         F         3.1.0         3.2.0         T1-000306           TP-10         TP-000215         024         Downlink signal conditions and propagation conditions         D         3.1.0         3.2.0         T1-000307           TP-10         TP-000215         025         Mpdication of integrity mode protection to									
TP-09   TP-000131   017									
TP-09   TP-000131   018   Correction to definition of the test algorithm for authenticatino (clause 8.1.2)   TP-09   TP-000131   019   Reference Radio Bearer Configurations   F   3.0.1   3.1.0   T1-000215   TP-09   TP-000215   021   Common generic procedure for AS testing   B   3.1.0   3.2.0   T1-000237   TP-10   TP-000215   022   Requirements for the system simulator for support of Tcell parameter   TP-10   TP-000215   023   Minimum Performance Levels   F   3.1.0   3.2.0   T1-000303   TP-10   TP-000215   024   Downlink signal conditions and propagation conditions   F   3.1.0   3.2.0   T1-000303   TP-10   TP-000215   025   Updating 34.108 v3.1.0 to TDD single mode   F   3.1.0   3.2.0   T1-000303   TP-10   TP-000215   025   Updating 34.108 v3.1.0 to TDD single mode   F   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   028   Updates to the default message contents in clause 9   C   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   028   Updates to System Information Block (SIB) and Master   Information Block (MIB) messages   TP-10   TP-000215   030   Addition for System Information parameters (34.108 clause   F   3.1.0   3.2.0   T1-000286   TP-10   TP-000215   031   Correction for Generic Setup Procedures (34.108 clause   F   3.1.0   3.2.0   T1-000286   TP-11   TP-010018   032   Correction for Generic Setup Procedures (34.108 clause   F   3.1.0   3.2.0   T1-000305   TP-11   TP-010018   033   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.1.0   3.2.0   T1-000305   TP-11   TP-010018   034   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010078   TP-11   TP-010018   035   Correction for Generic Setup Procedures (34.108 clause 8)   F   3.2.0   3.3.0   T1-010078   TP-11   TP-010018   035   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010078   T1-010078   TP-11   TP-010018   035   Correction for Generic Setup									
authentication (clause 8.1.2)									
TP-00   TP-000215   O22			018		authentication (clause 8.1.2)	F	3.0.1	3.1.0	11-000164
TP-10   TP-000215   021   Common generic procedure for AS testing   B   3.1.0   3.2.0   T1-000204   TP-10   TP-000215   022   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000303   parameter   TP-10   TP-000215   023   Minimum Performance Levels   F   3.1.0   3.2.0   T1-000308   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   T1-000207   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000208   TP-10   TP-000215   027   Updates to the default message contents in clause 9   C   3.1.0   3.2.0   T1-000208   TP-10   TP-000215   028   Updates to System Information Block (SIB) and Master   C   3.1.0   3.2.0   T1-000208   TP-10   TP-000215   029   Application of ciphering during conformance testing   C   3.1.0   3.2.0   T1-000208   TP-10   TP-000215   030   Addition for System Information parameters (34.108 clause F   3.1.0   3.2.0   T1-000304   TP-10   TP-000215   031   Correction for Generic Setup Procedures (34.108 clause F   3.1.0   3.2.0   T1-000304   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   034   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010079   TP-11   TP-010018   035   Correction for Test USIM Parameters (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010079   TP-11   TP-010018   036   Update of unthentication test algorithm   C   3.2.0   3.3.0   T1-010080   TP-11   TP-010018   036   Update of unthentication test algorithm   C   3.2.0   3.3.0   T1-010080   TP-11   TP-010018   036   Update of unthentication test algorithm   C   3.2.0   3.3.0   T1-010080   TP-12   TP-010118   041   Corrections to clause 6.10   TDD parameters   F   3.3.0   3.4.0   T1-010080   TP-12   TP-010118   041   Corrections to clause 6.10   TDD parameters   F   3	TP-09	TP-000131	019		Reference Radio Bearer Configurations	F	3.0.1	3.1.0	T1-000212
TP-10   TP-000215   022   Requirements for the system simulator for support of Tcell   F   3.1.0   3.2.0   T1-000303   TP-10   TP-000215   023   Minimum Performance Levels   F   3.1.0   3.2.0   T1-000306   TP-10   TP-000215   024   Downlink signal conditions and propagation conditions   D   3.1.0   3.2.0   T1-000307   TP-10   TP-000215   025   Updating 34.108 v3.1.0 to TDD single mode   F   3.1.0   3.2.0   T1-000307   TP-10   TP-000215   026   Application of integrity mode protection to signalling   F   3.1.0   3.2.0   T1-000296   TP-10   TP-000215   027   Updates to the default message contents in clause 9   C   3.1.0   3.2.0   T1-000280   Information Block (MIB) messages   Updates to System Information Block (SIB) and Master   C   3.1.0   3.2.0   T1-000283   Information Block (MIB) messages   TP-10   TP-000215   029   Application of ciphering during conformance testing   C   3.1.0   3.2.0   T1-000285   TP-10   TP-000215   030   Addition for System Information parameters (34.108 clause F   3.1.0   3.2.0   T1-000306   6.1)   TP-10   TP-000215   031   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.1.0   3.2.0   T1-000306   6.1)   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   T1-010078   TP-11   TP-010018   034   Correction for Generic Setup Procedures (34.108 clause 8)   F   3.2.0   3.3.0   T1-010078   TP-11   TP-010018   035   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010078   TP-11   TP-010018   035   Correction for Generic Setup Procedures (34.108 clause 8)   F   3.2.0   3.3.0   T1-010078   TP-11   TP-010018   036   Update of authentication test algorithm   C   3.2.0   3.3.0   T1-010078   TP-11   TP-010018   036   Update of authentication test algorithm   C   3.2.0   3.3.0   T1-010082   TP-11   TP-010018   038   Update of lause environments for TDD mode (SIB)   F   3.2.0	TP-09	TP-000131	020		TDD Single mode	F	3.0.1	3.1.0	T1-000220
Parameter	TP-10	TP-000215	021		Common generic procedure for AS testing	В	3.1.0	3.2.0	T1-000294
TP-10   TP-000215   023   Minimum Performance Levels   F   3.1.0   3.2.0   T1-000306   TP-10   TP-000215   025   Downlink signal conditions and propagation conditions   F   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   F   3.1.0   3.2.0   T1-000281   TP-10   TP-000215   027   Updates to the default message contents in clause 9   C   3.1.0   3.2.0   T1-000282   Information Block (MIB) messages   Updates to System Information Block (SIB) and Master   C   3.1.0   3.2.0   T1-000283   Information Block (MIB) messages   Information Block (MIB) messages   TP-10   TP-000215   029   Application of ciphering during conformance testing   C   3.1.0   3.2.0   T1-000285   TP-10   TP-000215   030   Addition for System Information parameters (34.108 clause F   3.1.0   3.2.0   T1-000346   S.1)   TP-10   TP-000215   031   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.1.0   3.2.0   T1-000346   TP-11   TP-010018   032   Default radio conditions for multi-cell environment   F   3.2.0   3.3.0   T1-010079   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   Correction for Generic Setup Procedures (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010079   TP-11   TP-010018   035   Correction for Glause number in TS 34.108   Clause B   F   3.2.0   3.3.0   T1-010079   TP-11   TP-010018   036   Update of authentication test algorithm   C   3.2.0   3.3.0   T1-010080   TP-11   TP-010018   038   Update of authentication test algorithm   C   3.2.0   3.3.0   T1-010080   TP-11   TP-010018   038   Update for clause number in TS 34.108   TP-11   TP-010018   039   Simulated network environments for TDD mode (SIB)   F   3.2.0   3.3.0   T1-010080   TP-12   TP-010118   041   Corrections to clause 6.10 TDD parameters   F   3.3.0   3.4.0   T1-010216   TP-12   TP-010118   04	TP-10	TP-000215	022			F	3.1.0	3.2.0	T1-000303
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   F   3.1.0   3.2.0   T1-000281   TP-10   TP-000215   027   Updates to the default message contents in clause 9   C   3.1.0   3.2.0   T1-000282   TP-10   TP-000215   028   Updates to System Information Block (SIB) and Master   C   3.1.0   3.2.0   T1-000283   TP-10   TP-000215   029   Application of ciphering during conformance testing   C   3.1.0   3.2.0   T1-000285   TP-10   TP-000215   030   Addition for System Information parameters (34.108 clause   F   3.1.0   3.2.0   T1-000304   En. (1)   TP-000215   031   Correction for Generic Setup Procedures (34.108 clause   F   3.1.0   3.2.0   T1-000304   En. (1)   TP-000215   031   Correction for Generic Setup Procedures (34.108 clause   F   3.1.0   3.2.0   T1-000305   TP-11   TP-010018   032   Default radio conditions for multi-cell environment   F   3.2.0   3.3.0   T1-010078   TP-11   TP-010018   033   Correction for Test USIM Parameters (34.108 clause 7.2)   F   3.2.0   3.3.0   T1-010078   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   C   3.2.0   3.3.0   T1-010081   TP-11   TP-010018   036   Updates to clause 9 of TS 34.108 v3.2.0   F   3.2.0   3.3.0   T1-010081   TP-11   TP-010018   038   Updates to clause 6.10 FDD parameters   F   3.2.0   3.3.0   T1-010081   TP-12   TP-010118   040   Corrections to clause 6.10 FDD parameters   F   3.3.0   3.4.0   T1-010206   TP-12   TP-010118   044   Updates to clause 6.10 FDD parameters   F   3.3.0   3.4.0   T1-010206   TP-12   TP-010118   045   Updates to clause 6.10 FDD parameters   F   3.3.0   3.4.	TP-10	TP-000215	023		, I	F	3.1.0	3.2.0	T1-000306
TP-10									
TP-10         TP-000215         026         Application of integrity mode protection to signalling message by default         F         3.1.0         3.2.0         T1-000296 message by default           TP-10         TP-000215         027         Updates to the default message contents in clause 9         C         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         C         3.1.0         3.2.0         T1-000283           TP-10         TP-000215         029         Application of ciphering during conformance testing         C         3.1.0         3.2.0         T1-000285           TP-10         TP-000215         030         Addition for System Information parameters (34.108 clause F.)         3.1.0         3.2.0         T1-000304           6.1)         TP-1001018         032         Default radio conditions for multi-cell environment         F         3.1.0         3.2.0         3.3.0         T1-010078           TP-11         TP-010018         032         Default radio conditions for multi-cell environment         F         3.2.0         3.3.0         T1-010078           TP-11         TP-010018         032         Correction of Generic Setup Procedures (34.108 clause 7.2)         F         3.2.0									
TP-10         TP-000215         027         Updates to System Information Block (SIB) and Master Information Block (SIB) and Master Information Block (MIB) messages         C         3.1.0         3.2.0         T1-000283           TP-10         TP-000215         029         Application of ciphering during conformance testing         C         3.1.0         3.2.0         T1-000285           TP-10         TP-000215         030         Addition for System Information parameters (34.108 clause 6.1)         5.1.0         3.2.0         T1-000304           TP-10         TP-000215         031         Correction for Generic Setup Procedures (34.108 clause 7.2)         F         3.1.0         3.2.0         T1-000305           TP-11         TP-010018         032         Default radio conditions for multi-cell environment         F         3.2.0         3.3.0         T1-010078           TP-11         TP-010018         032         Correction for Generic Setup Procedures (34.108 clause 7.2)         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         035         Correction for Test USIM Parameters(34.108 clause 7.2)         F         3.2.0					Application of integrity mode protection to signalling				T1-000296
TP-10         TP-000215         028         Updates to System Information Block (SIB) and Master Information Block (MIB) messages         C         3.1.0         3.2.0         T1-000283           TP-10         TP-000215         029         Application of ciphering during conformance testing         C         3.1.0         3.2.0         T1-000285           TP-10         TP-000215         030         Addition for System Information parameters (34.108 clause F. 2)         3.1.0         3.2.0         T1-000304           TP-10         TP-000215         031         Correction for Generic Setup Procedures (34.108 clause 7.2)         F         3.1.0         3.2.0         T1-000305           TP-11         TP-010018         032         Default radio conditions for multi-cell environment         F         3.2.0         3.3.0         T1-010078           TP-11         TP-010018         033         Correction for Generic Setup Procedures (34.108 clause 7.2)         F         3.2.0         3.3.0         T1-010078           TP-11         TP-010018         033         Corrections for Test USIM Parameters (34.108 clause 8)         F         3.2.0         3.3.0         T1-010079           TP-11         TP-010018         035         Corrections for Test Using the mode         D         3.2.0         3.3.0         T1-010081 <t< td=""><td>TD 10</td><td>TD 000015</td><td>027</td><td></td><td></td><td>0</td><td>2.4.0</td><td>2 2 0</td><td>T4 000000</td></t<>	TD 10	TD 000015	027			0	2.4.0	2 2 0	T4 000000
Information Block (MIB) messages									
TP-10         TP-000215         030         Addition for System Information parameters (34.108 clause 6.1)         3.1.0         3.2.0         T1-000304 6.1)           TP-10         TP-000215         031         Correction for Generic Setup Procedures (34.108 clause 7.2) F         3.1.0         3.2.0         T1-000305           TP-11         TP-010018         032         Default radio conditions for multi-cell environment         F         3.2.0         3.3.0         T1-010078           TP-11         TP-010018         033         Corrections for Generic Setup Procedures (34.108 clause 7.2) F         3.2.0         3.3.0         T1-010078           TP-11         TP-010018         034         Corrections for Test USIM Parameters(34.108 clause 8)         F         3.2.0         3.3.0         T1-010078           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         C         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         T1-010082           TP-11         TP-010018         039					Information Block (MIB) messages				
Record   Promotion   Promoti	TP-10	TP-000215							T1-000285
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         C         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         T1-010082           TP-11         TP-010018         038         Updating to TDD single mode         F         3.2.0         3.3.0         T1-010088           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010088           TP-12         TP-010118         040	TP-10	TP-000215	030			F	3.1.0	3.2.0	T1-000304
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         Correction of clause number in TS 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         C         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         T1-010082           TP-11         TP-010018         038         Updates to clause 9 of TS 34.108 v3.2.0         F         3.2.0         3.3.0         T1-010082           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010088           TP-12         TP-010118         040 <td>TP-10</td> <td>TP-000215</td> <td>031</td> <td></td> <td>Correction for Generic Setup Procedures (34.108 clause 7.2)</td> <td>F</td> <td>3.1.0</td> <td>3.2.0</td> <td>T1-000305</td>	TP-10	TP-000215	031		Correction for Generic Setup Procedures (34.108 clause 7.2)	F	3.1.0	3.2.0	T1-000305
TP-11         TP-010018         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         T1-010082           TP-11         TP-010018         036         Updates of authentication test algorithm         C         3.2.0         3.3.0         T1-010082           TP-11         TP-010018         037         Updates to clause 9 of TS 34.108 v3.2.0         F         3.2.0         3.3.0         T1-010084           TP-11         TP-010018         038         Updating to TDD single mode         F         3.2.0         3.3.0         T1-010088           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010088           TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Co	TP-11	TP-010018	032				3.2.0		T1-010078
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         C         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         T1-010084           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010089           TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         042         Adding section for rad						F			
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         C         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         T1-010089           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010089           TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Corrections to clause 6.10 TDD parameters         F         3.3.0         3.4.0         T1-010206           TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010210           TP-12         TP-010118         043         <									
TP-11         TP-010018         036         Update of authentication test algorithm         C         3.2.0         3.3.0         T1-010082           TP-11         TP-010018         037         Updates to clause 9 of TS 34.108 v3.2.0         F         3.2.0         3.3.0         T1-010084           TP-11         TP-010018         038         Updating to TDD single mode         F         3.2.0         3.3.0         T1-010088           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010088           TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010216           TP-12         TP-010118         043         Updates of list of abbreviations         D         3.3.0         3.4.0         T1-010217           TP-12         TP-010118         044         Update									
TP-11         TP-010018         037         Updates to clause 9 of TS 34.108 v3.2.0         F         3.2.0         3.3.0         T1-010084           TP-11         TP-010018         038         Updating to TDD single mode         F         3.2.0         3.3.0         T1-010088           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010089           TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Corrections to clause 6.10 TDD parameters         F         3.3.0         3.4.0         T1-010206           TP-12         TP-010118         041         Corrections to clause 6.10 TDD parameters         F         3.3.0         3.4.0         T1-010206           TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010210           TP-12         TP-010118         043         Updates to flist of abbreviations         D         3.3.0         3.4.0         T1-010211           TP-12         TP-010118         044         Upd									
TP-11         TP-010018         038         Updating to TDD single mode         F         3.2.0         3.3.0         T1-010088           TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010089           TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Corrections to clause 6.10 TDD parameters         F         3.3.0         3.4.0         T1-010206           TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010210           TP-12         TP-010118         043         Update of list of abbreviations         D         3.3.0         3.4.0         T1-010211           TP-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									
TP-11         TP-010018         039         Simulated network environments for TDD mode (SIB)         F         3.2.0         3.3.0         T1-010089           TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Corrections to clause 6.10 TDD parameters         F         3.3.0         3.4.0         T1-010206           TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010210           TP-12         TP-010118         043         Update of list of abbreviations         D         3.3.0         3.4.0         T1-010211           TP-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         T1-010213           TP-13         TP-010215         048         Correction to									
TP-12         TP-010118         040         Corrections to clause 6.10 FDD parameters         F         3.3.0         3.4.0         T1-010205           TP-12         TP-010118         041         Corrections to clause 6.10 TDD parameters         F         3.3.0         3.4.0         T1-010206           TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010210           TP-12         TP-010118         043         Update of list of abbreviations         D         3.3.0         3.4.0         T1-010211           TP-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         T1-010213           TP-13         TP-010215         048         Corrections and removal of a reference document         F         3.3.0         3.4.0         T1-010275           TP-13         TP-010215         049         Editorial modifi					1 0				
TP-12         TP-010118         041         Corrections to clause 6.10 TDD parameters         F         3.3.0         3.4.0         T1-010206           TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010210           TP-12         TP-010118         043         Update of list of abbreviations         D         3.3.0         3.4.0         T1-010211           TP-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         050         Some corrections in clau									
TP-12         TP-010118         042         Adding section for radio bearer configurations intended for functional testing         D         3.3.0         3.4.0         T1-010210           TP-12         TP-010118         043         Update of list of abbreviations         D         3.3.0         3.4.0         T1-010211           TP-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         T1-010277           TP-13         TP-010215         050         Some corrections in clause 5									
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           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0					Adding section for radio bearer configurations intended for				T1-010210
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           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD         F <td< td=""><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td></td<>						_			
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           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD         F         3.4.0         3.5.0         T1-010279									
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           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD parameters         F         3.4.0         3.5.0         T1-010279					•				
TP-12         TP-010118         047         Editorial corrections and removal of a reference document         F         3.3.0         3.4.0         T1-010215           TP-13         TP-010215         048         Correction to reference         F         3.4.0         3.5.0         T1-010275           TP-13         TP-010215         049         Editorial modification for References         F         3.4.0         3.5.0         T1-010276           TP-13         TP-010215         050         Some corrections in clause 5         F         3.4.0         3.5.0         T1-010277           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD parameters         F         3.4.0         3.5.0         T1-010279									
TP-13         TP-010215         048         Correction to reference         F         3.4.0         3.5.0         T1-010275           TP-13         TP-010215         049         Editorial modification for References         F         3.4.0         3.5.0         T1-010276           TP-13         TP-010215         050         Some corrections in clause 5         F         3.4.0         3.5.0         T1-010277           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD parameters         F         3.4.0         3.5.0         T1-010279									
TP-13         TP-010215         049         Editorial modification for References         F         3.4.0         3.5.0         T1-010276           TP-13         TP-010215         050         Some corrections in clause 5         F         3.4.0         3.5.0         T1-010277           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD parameters         F         3.4.0         3.5.0         T1-010279									
TP-13         TP-010215         050         Some corrections in clause 5         F         3.4.0         3.5.0         T1-010277           TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD parameters         F         3.4.0         3.5.0         T1-010279									T1-010275
TP-13         TP-010215         051         Update to Scope Statement         F         3.4.0         3.5.0         T1-010278           TP-13         TP-010215         052         Clause 6.10 Definition of RB configurations, TDD parameters         F         3.4.0         3.5.0         T1-010279									T1-010276
TP-13 TP-010215 052 Clause 6.10 Definition of RB configurations, TDD F 3.4.0 3.5.0 T1-010279 parameters									T1-010277
parameters			051						T1-010278
	TP-13	TP-010215	052			F	3.4.0	3.5.0	T1-010279
TP-13 TP-010215 053 Updates to clause 6.1, clause 7.4 and clause 9 F 3.4.0 3.5.0 T1-010280	TP-13	TP-010215	053			F	3.4.0	3.5.0	T1-010280

Meeti ng- 1st- Level	Doc-1st-Level	CR	Rev	Subject	Cat	Version- Current		Doc-2nd- Level
	TP-010215	054		Clause 6.1: Default radio conditions for Signalling tests	F	3.4.0	3.5.0	T1-010281
	TP-010215	055		Correction of Radio Bearer Configurations for FDD Mode	F	3.4.0	3.5.0	T1-010282
TP-13	TP-010215	056		Correction of Radio Bearer Configurations for TDD Mode	F	3.4.0	3.5.0	T1-010283
TP-13	TP-010215	057		Changes to Signalling Radio Bearer (SRB) numbering	F	3.4.0	3.5.0	T1-010284
TP-13	TP-010215	058		Missing bearers in tables 6.10.2.1.1 and 6.10.3.1.1	F	3.4.0	3.5.0	T1-010285
TP-13	TP-010215	059		Correction of system information block 5	F	3.4.0	3.5.0	T1-010286
TP-13	TP-010215	060		Introducing of 1.28 Mcps TDD Mode in clauses 4, 5 and 6	F	3.4.0	4.0.0	T1-010287
	TP-010215	061		Introduction of System Information Blocks for 1.28 Mcps TDD Mode	F	3.4.0	4.0.0	T1-010288
TP-13	TP-010215	062		Introduction of typical radio parameters for 1.28 McpsTDD	F	3.4.0	4.0.0	T1-010289
TP-13	TP-010215	063		Clause 6.11 RBs for RLC and PDCP testing	F	3.4.0	3.5.0	T1-010290
TP-14	TP-010285	065	1	Correction to 6.1 Contents of System Information Blocks	Α	4.0.0	4.1.0	T1-010475
TP-14	TP-010285	067	1	Corrections to clause 6.1, 7.4 and 9	Α	4.0.0	4.1.0	T1-010473
TP-14	TP-010258	069		Reference Radio Conditions	Α	4.0.0	4.1.0	T1-010461
TP-14	TP-010258	071		Modification of Test procedures for RF tests	Α	4.0.0	4.1.0	T1-010463
TP-14	TP-010258	073		Default message contents for RF tests	Α	4.0.0	4.1.0	T1-010465
TP-14	TP-010258	075		Correction to 6.10 Reference Radio Bearer configurations	Α	4.0.0	4.1.0	T1-010467
TP-14	TP-010258	077		Definition of default value of rate matching attribute	Α	4.0.0	4.1.0	T1-010469
TP-14	TP-010258	079		Update of clause 7.4 and 6.10	Α	4.0.0	4.1.0	T1-010471
TP-14	TP-010292	081		Correction on introduction of section 6.10	Α	4.0.0	4.1.0	
TP-15	TP-020038	083		Replacement of Block STTD by Space Code Transmit Diversity (SCTD) (Rel-4)	Α	4.1.0	4.2.0	T1-020092
TP-15	TP-020038	085		Update of reference radio conditions (Rel-4)	Α	4.1.0	4.2.0	T1-020098
	TP-020038	087		Update of system reference configurations and default messages (Rel-4)	А	4.1.0	4.2.0	T1-020100
TP-15	TP-020038	089		Corrections to 34108-410	Α	4.1.0	4.2.0	T1-020102
TP-15	TP-020038	091		Introduction of new Reference RABs (Rel-4)	Α	4.1.0	4.2.0	T1-020195
TP-15	TP-020038	094		Update of SIBs for TDD (both modes) in TS34.108 (Rel4)	F	4.1.0	4.2.0	T1-020107
TP-15	TP-020038	095		Clarification of bit rate of Interactive/Background PS RAB function (Rel-4)	Α	4.1.0	4.2.0	T1-020184
				Correction of CR implementation errors in clauses: 6.10.2.2 and 6.10.2.4.1.58.2.1.1		4.2.0	4.2.1	
TP-16	TP-020141	108		Section 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD (3.84 Mcps and 1.28 Mcps)	F	4.2.1	4.3.0	T1-020289
TP-16	TP-020141	109		Correction to clause 7.3.3.4 RADIO BEARER SETUP message	Α	4.2.1	4.3.0	T1-020291
TP-16	TP-020141	110		Change of RM attribute of DL:3.4 kbps SRBs for DCCH in for REL4	А	4.2.1	4.3.0	T1-020292
TP-16	TP-020141	111		New additional RAB configuration (R1-020669) for REL4	Α	4.2.1	4.3.0	T1-020293
TP-16	TP-020141	112		Correction of Puncturing Limit for RABs for REL4	Α	4.2.1	4.3.0	T1-020294
TP-16	TP-020141	113		Test USIM	Α	4.2.1	4.3.0	T1-020295
TP-16	TP-020141	114		Section 6.1 (SIBs)Rel 4 (3.84 Mcps and 1.28 Mcps TDD)	F	4.2.1	4.3.0	T1-020296
TP-16	TP-020141	115		Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB	Α	4.2.1	4.3.0	T1-020297
	TP-020141	116		Correction to default message in clause 9 for Rel4	Α	4.2.1	4.3.0	T1-020298
	TP-020141	117		Correction to clause 6.1 for Rel4	Α	4.2.1	4.3.0	T1-020299
	TP-020141	118		WCDMA1800 additions for Rel4	Α	4.2.1	4.3.0	T1-020300
	TP-020141	119		Section 9.1 Default message contents for TDD (3.84 Mcps and 1.28 Mcps) R4	F	4.2.1	4.3.0	T1-020301
TP-16		121		Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment	Α	4.2.1	4.3.0	T1-020434
TP-17	TP-020184	123	-	Alignment of reference configurations on S-CCPCH with	Α	4.3.0	4.4.0	T1-020503
TP-17	TP-020184	125	-	Addition of reference compressed mode pattern	Α	4.3.0	4.4.0	T1-020505
TP-17	TP-020184	127	-	Corrections to default message contents as T1S-	Α	4.3.0	4.4.0	T1-020507
	TP-020184	129	-	Additional default message contents for RF Testing	Α	4.3.0	4.4.0	T1-020509
TP-17	TP-020184	131	-	Corrections related to SIB11, SIB12 and to the	Α	4.3.0	4.4.0	T1-020527
TP-17	TP-020184	133	-	Corrections to clause 6.1 (T1S-020349rev1)	Α	4.3.0	4.4.0	T1-020530
TP-17		135	-	Introduction of reference configurations on S-CCPCH and	Α	4.3.0	4.4.0	T1-020539
TP-17		137	-	Removal of reference radio bearer configurations for	A	4.3.0	4.4.0	T1-020541
TP-17	TP-020184	140		Some corrections and updates in clause 6.1 for TDD mode	F	4.3.0	4.4.0	T1-020576
TP-17	TP-020184	142	-	Inclusion of default message contents for RF in clause 9.2	F	4.3.0	4.4.0	T1-020578
TP-18	TP-020293	144	1-	Correction to default messages in 9.1 and 9.2	Α	4.4.0	4.5.0	T1-020658
TP-18		146	-	Corrections in the TDD test frequencies according to core specs	A	4.4.0	4.5.0	T1-020674
TP-18	TP-020293	148	-	Addition of alternative configuration using Turbo Coding for	Α	4.4.0	4.5.0	T1-020694

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ng-						Current	-New	Level
1st- Level								
20101				Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH				
	TP-020293	150	-	Correction to content of sub-clause 6.10.2.	Α	4.4.0	4.5.0	T1-020709
	TP-020293	152	-	Correction to SIB 11/12 definition	Α	4.4.0	4.5.0	T1-020712
	TP-020293	154	-	Reference Measurement Channels	Α	4.4.0	4.5.0	T1-020768
	TP-020293	156	-	Transferring system information definition using ASN.1 description to PRD	Α	4.4.0	4.5.0	T1-020778
	TP-020293 TP-020293	158 160	-	Correction to RLC RAB TFCS	A	4.4.0	4.5.0 4.5.0	T1-020780 T1-020783
				Default Message contents : Correction from CRs approved in RP17meeting				
	TP-020293 TP-020293	162 164	-	Corrections to SIB1 to SIB6	A	4.4.0	4.5.0 4.5.0	T1-020799 T1-020801
	TP-020293	166	-	Correction to RAB configurations as revision of T1S020756 Parameter addition for Reference RABs based on LS from	A	4.4.0	4.5.0	T1-020801
	TP-020293	168	-	RAN2 Addition to clause 7.4 for multi call as T1S-020577rev2	A	4.4.0	4.5.0	T1-020818
				(revision to T1S020820)				
	TP-020293	169	-	RAB Combinations for IMS Services	F	4.4.0	4.5.0	T1-020819
	TP-020293	171	-	Correction to Contents of the Scheduling Block Syste Information in clause 6.1.3.	F	4.4.0	4.5.0	T1-020844
	TP-030044	173	-	RAB Removal from Rel 4 TS 34.108 as T1S030002rev1	Α	4.5.0	4.6.0	T1-030037
	TP-030044	175	-	Combine all Radio Bearer Setup messages into one table	Α	4.5.0	4.6.0	T1-030040
	TP-030044	177	-	Corrections to SB and SIB configurations in clause 6.1 as	Α	4.5.0	4.6.0	T1-030042
	TP-030044	179	-	Correction to TS34.108 Rel-4 ; PAGING TYPE1 message	Α	4.5.0	4.6.0	T1-030044
	TP-030044	181	-	Clarification of autentication test algorithm and GSM cipher	Α	4.5.0	4.6.0	T1-030046
	TP-030044	183	-	Addition of simulated network environment for inter-RAT test	Α	4.5.0	4.6.0	T1-030048
	TP-030044	185	-	Corrections to SIB1 to align with default values for LAC and	Α	4.5.0	4.6.0	T1-030050
	TP-030044	187	-	Addition of default inter-RAT handover messages	Α	4.5.0	4.6.0	T1-030052
	TP-030044	189	-	Correction of activation time IEs in default messages	Α	4.5.0	4.6.0	T1-030054
	TP-030044	191	-	Correction to default SECURITY MODE COMMAND	Α	4.5.0	4.6.0	T1-030056
	TP-030044	193	-	Addition of option for UL CM only in default reference CM	Α	4.5.0	4.6.0	T1-030058
	TP-030044	195	-	Introduction of a reference RB configuration for RMC for	Α	4.5.0	4.6.0	T1-030060
	TP-030044	197	-	Update of the RRC connection request messages in 34.108	Α	4.5.0	4.6.0	T1-030063
	TP-030043	198	-	Introduction of Conversational PS RABs in Rel 4 TS 34.108	F	4.5.0	4.6.0	T1-030107
	TP-030043	200	-	Update of default parameters for 1 to 8 cell environments	Α	4.5.0	4.6.0	T1-030208
TP-19	TP-030043	202	-	Update of Multi-cell environment for default radio conditions	Α	4.5.0	4.6.0	T1-030210
TP-19	TP-030043	204	-	Modification to Generic Registration Procedures	Α	4.5.0	4.6.0	T1-030222
TP-19	TP-030043	206	-	Update of default configurations to enable testing of low end	Α	4.5.0	4.6.0	T1-030228
TP-20	TP-030098	208	-	Reinstate parameters for Interactive or background /UL:64 kbps / PS RAB	Α	4.6.0	4.7.0	T1-030437
TP-20	TP-030098	210	-	Correction to Figure 7.4.1.1 (Rel-4)	Α	4.6.0	4.7.0	T1-030483
TP-20	TP-030098	212	-	Update of SIB 11 and 12 in clause 6.1.0b in TS34.108 (TDD)	Α	4.6.0	4.7.0	T1-030507
TP-20	TP-030098	214	-	Update of Default parameters for 1 to 8 cell environments in TS34.108 (TDD)	Α	4.6.0	4.7.0	T1-030509
TP-20	TP-030098	216	-	` '	Α	4.6.0	4.7.0	T1-030632
TP-20	TP-030098	218	-	Section 8.2: Definition of default values for authentication key K on test USIM	Α	4.6.0	4.7.0	T1-030644
TP-20	TP-030098	219	-	Update of Reconfiguration messages	Α	4.6.0	4.7.0	T1-030692
	TP-030098	221	-	Correction to RADIO BEARER RELEASE and RRC	Α	4.6.0	4.7.0	T1-030699
		226		CONNECTION SETUP messages (Revision of T1-030569)	Α			
	TP-030140		-	Correction to default SIB5 (FDD)		4.6.0.	4.7.0	T1-030745
	TP-030191	228	-	CR to 34.108, Rel-4, Clarification of seg_count in 6.1.0a.3	Α	4.7.0	4.8.0	T1-030827
TP-21	TP-030191	230	-	General correction in clause 7.4 for Common generic procedures for AS testing	Α	4.7.0	4.8.0	T1-030976
TP-21	TP-030191	233	-	Incorrect activation time in CELL_FACH state .	А	4.7.0	4.8.0	T1-031064
TP-21	TP-030191	235	-	Incorrect Transport Channel Parameters	А	4.7.0	4.8.0	T1-031066
TP-21	TP-030191	237	-	Corrections to TS 34.108 common procedures in clause 7.4 of Rel-4 of TS 34.108	A	4.7.0	4.8.0	T1-031095

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TP-21	TP-030191	239	-	Removal of RLC AM in the Default Message Content	А	4.7.0	4.8.0	T1-031151
TP-21	TP-030191	242	-	CR 34.108 Rel-4: Manual attach in State 7 Registrated Idle Mode on CS/PS	А	4.7.0	4.8.0	T1-031175
TP-21	TP-030191	244	-	URA Identity in Cell Update Confirm and URA Update Confirm	A	4.7.0	4.8.0	T1-031179
TP-21	TP-030191	246	-	CR to 34.108 R4; Correction to specification to reflect a change already approved in TTCN CR T1-030396	A	4.7.0	4.8.0	T1-031241
TP-21	TP-030191	248	-	CR to 34.108 REL-4; Correction to section 7.3 Test procedures for RF test	А	4.7.0	4.8.0	T1-031251
TP-21	TP-030191	240	-	RB configuration for the support of wideband AMR speech telephony services	F	4.7.0	4.8.0	T1-031154

### History

	Document history						
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V4.1.0	December 2001	Publication					
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V4.2.1	March 2002	Publication					
V4.3.0	June 2002	Publication					
V4.4.0	September 2002	Publication					
V4.5.0	December 2002	Publication					
V4.6.0	March 2003	Publication					
V4.7.0	June 2003	Publication					
V4.8.0	September 2003	Publication					