

Source: T1
Title: CR's to TS 34.108 v3.7.1 and v4.2.1 for approval
Agenda item: 5.1.3
Document for: Approval

This document contains 13 CRs to TS 34.108 v3.7.1 and 13 CRs to TS 34.108 v4.2.1. These CRs have been agreed by T1 and are put forward to TSG T for approval.

CRs related to maintenance of R99:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Workitem
34.108	096		R99	Correction to clause 7.3.3.4 RADIO BEARER SETUP message	F	3.7.1	3.8.0	T1-020271	
34.108	097		R99	Change of RM attribute of DL:3.4 kbps SRBs for DCCH in TS34.108 for R99	F	3.7.1	3.8.0	T1-020272	
34.108	098		R99	New additional RAB configuration (R1-020669) for R99	F	3.7.1	3.8.0	T1-020273	
34.108	099		R99	Correction of Puncturing Limit for RABs in TS34.108 for R99	F	3.7.1	3.8.0	T1-020274	
34.108	100		R99	Test USIM	F	3.7.1	3.8.0	T1-020275	
34.108	101		R99	Section 6.1 (SIBs)Rel 99 TDD	F	3.7.1	3.8.0	T1-020276	
34.108	102		R99	Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB	F	3.7.1	3.8.0	T1-020277	
34.108	103		R99	Correction to default message on clause 9 for Rel'99	F	3.7.1	3.8.0	T1-020278	
34.108	104		R99	Correction to clause 6.1 for Rel'99	F	3.7.1	3.8.0	T1-020279	
34.108	105		R99	WCDMA1800 additions for Rel'99	F	3.7.1	3.8.0	T1-020280	
34.108	106		R99	Section 7(reference) Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD	F	3.7.1	3.8.0	T1-020281	
34.108	107		R99	Section 9.1, Inclusion of Default message contents for TDD Rel 99(TS34.108)	F	3.7.1	3.8.0	T1-020282	

CRs related to maintenance of Rel-4:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Workitem
34.108	108		Rel-4	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	TEI, LCRTDD
34.108	109		Rel-4	Correction to clause 7.3.3.4 RADIO BEARER SETUP message	A	4.2.1	4.3.0	T1-020291	TEI
34.108	110		Rel-4	Change of RM attribute of DL:3.4 kbps SRBs for DCCH in for REL4	A	4.2.1	4.3.0	T1-020292	TEI
34.108	111		Rel-4	New additional RAB configuration (R1-020669) for REL4	A	4.2.1	4.3.0	T1-020293	TEI
34.108	112		Rel-4	Correction of Puncturing Limit for RABs for REL4	A	4.2.1	4.3.0	T1-020294	TEI
34.108	113		Rel-4	Test USIM	A	4.2.1	4.3.0	T1-020295	TEI
34.108	114		Rel-4	Section 6.1 (SIBs)Rel 4 (3.84 Mcps and 1.28 Mcps TDD)	F	4.2.1	4.3.0	T1-020296	TEI, LCRTDD
34.108	115		Rel-4	Section 6.10 References for TDD about Clarification of bit rate of Interactive/Background PS RAB	A	4.2.1	4.3.0	T1-020297	TEI
34.108	116		Rel-4	Correction to default message in clause 9 for Rel4	A	4.2.1	4.3.0	T1-020298	TEI
34.108	117		Rel-4	Correction to clause 6.1 for Rel4	A	4.2.1	4.3.0	T1-020299	TEI

34.108	118		Rel-4	WCDMA1800 additions for Rel4	A	4.2.1	4.3.0	T1-020300	TEI
34.108	119		Rel-4	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	TEI, LCRTDD

CRs approved by T1/Sig #22 but missing at T1 meeting:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd-Level	Workitem
34.108	120		R99	Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment	F	3.7.1	3.8.0	T1-020433	
34.108	121		Rel-4	Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment	A	4.2.1	4.3.0	T1-020434	TEI

CR-Form-v5.1	
CHANGE REQUEST	
⌘	34.108 CR 096 ⌘ rev - ⌘ Current version: 3.7.1 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ CR to 34.108 R99 ; Correction to clause 7.3.3.4 RADIO BEARER SETUP message		
Source:	⌘ MCI		
Work item code:	⌘ TEI	Date:	⌘ 17 May, 2002
Category:	⌘ F	Release:	⌘ R99
Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:	
F (correction)		2 (GSM Phase 2)	
A (corresponds to a correction in an earlier release)		R96 (Release 1996)	
B (addition of feature),		R97 (Release 1997)	
C (functional modification of feature)		R98 (Release 1998)	
D (editorial modification)		R99 (Release 1999)	
Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		REL-4 (Release 4)	
		REL-5 (Release 5)	

Reason for change:	⌘ To avoid unnecessary cell update procedure during measurement.
Summary of change:	⌘ A new C-RNTI value is added into RADIO BEARER SETUP message to transit to CELL_FACH state from CELL_DCH state.
Consequences if not approved:	⌘ Test condition is not matched for measurement of Rx Spurious Emission.

Clauses affected:	⌘ 7.3.3.4
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/>
	<input type="checkbox"/> Test specifications
	<input type="checkbox"/> O&M Specifications
Other comments:	⌘

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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

3GPP TSG- T1/SIG Meeting #23
Lund, Sweden, 21st/24th May 2002

T1-020272

3GPP TSG- T1/SIG Meeting #23
Lund, Sweden, 21st-23rd May 2002

T1S-020332

3GPP TSG-RAN WG1 Meeting #25
Paris, France, 09-12th April 2002

Tdoc R1-02-0643

CR-Form-v5

CHANGE REQUEST

⌘ **34.108 CR 097** ⌘ rev **-** ⌘ Current version: **3.7.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Change of the range of rate matching attribute for DL:3.4 kbps SRBs for DCCH
Source:	⌘ NTT DoCoMo, Inc.
Work item code:	⌘ Date: ⌘ 2002-04-12
Category:	⌘ F Release: ⌘ R99
Use <u>one</u> of the following categories:	
Use <u>one</u> of the following releases:	
F (correction)	2 (GSM Phase 2)
A (corresponds to a correction in an earlier release)	R96 (Release 1996)
B (addition of feature),	R97 (Release 1997)
C (functional modification of feature)	R98 (Release 1998)
D (editorial modification)	R99 (Release 1999)
Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	
REL-4 (Release 4)	
REL-5 (Release 5)	

Reason for change:	⌘ SCH interference which has not been taken into account might degrade DCCH quality by about 1 dB.
Summary of change:	⌘ Change the upper limit of rate matching attribute for DL: 3.4kbps SRBs for DCCH from 185 to 230
Consequences if not approved:	⌘ DCCH quality cannot be guaranteed when SCH hits DCCH part in some environment.

Clauses affected:	⌘ 6.10.2.4.1.2.2.1.1
Other specs Affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.10.2.4.1.2.2 Downlink

6.10.2.4.1.2.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB		SRB#1	SRB#2	SRB#3	SRB#4
	User of Radio Bearer		RRC	RRC	NAS_DT High prio	NAS_DT 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 header, bit		8	16	16	16
MAC	MAC header, bit		4	4	4	4
	MAC multiplexing		4 logical channel multiplexing			
Layer 1	TrCH type		DCH			
	TB sizes, bit		148 (alt 0, 148) (note)			
	TFS	TF0, bits	0x148 (alt 1x0) (note)			
		TF1, bits	1x148			
	TTI, ms		40			
	Coding type		CC 1/3			
	CRC, bit		16			
	Max number of bits/TTI before rate matching		516			
RM attribute		155- 230 485				
NOTE: alternative parameters enable the measurement "transport channel BLER" in the UE.						

CHANGE REQUEST

⌘ **34.108 CR 098** ⌘ rev - ⌘ Current version: **3.7.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Introduction of radio bearer configuration "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".	
Source:	⌘ RAN WG1, RAN WG2	
Work item code:	⌘	Date: ⌘ 2002-03-26
Category:	⌘ F Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Release: ⌘ R99 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ Combination of multimode AMR speech RAB and 64 CS RAB is not part of the conformance and testing specifications.
Summary of change:	⌘ Addition of a new reference RAB for UE conformance testing: 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.
Consequences if not approved:	⌘ Support of the proposed reference RAB can not be guaranteed for Rel'99 UE.

Clauses affected:	⌘ 6.10.2.2 and 6.10.2.4.1	
Other specs Affected:	⌘ <input type="checkbox"/> Other core specifications	⌘
	<input type="checkbox"/> Test specifications	
	<input type="checkbox"/> O&M Specifications	
Other comments:	⌘	

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>**6.10.2.2 Combinations of RABs and Signalling RBs**

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

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

Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Streaming / unknown / UL:0 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Streaming / unknown / UL:0 DL:128 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 21) Streaming / unknown / UL:128 DL:0 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 22) Streaming / unknown / UL:0 DL:384 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Interactive or background / UL:64 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

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

- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:128 DL:2048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:0 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 47) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 48) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:0 DL:384 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
+ Streaming / unknown / UL:0 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 55) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

Combinations on DSCH and DPCH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:2048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

Combinations on SCCPCH

- 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.

<End of modified section>

<Start of modified section>

[6.10.2.4.1.49a](#) [Conversational / speech / UL:\(12.2 7.95 5.9 4.75\) DL:\(12.2 7.95 5.9 4.75\) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH](#)

[6.10.2.4.1.49a.1](#) [Uplink](#)

[6.10.2.4.1.49a.1.1](#) [Transport channel parameters](#)

[6.10.2.4.1.49a.1.1.1](#) [Transport channel parameters for Conversational / speech / UL: \(12.2 7.95 5.9 4.75\) kbps / CS RAB](#)

[See clause 6.10.2.4.1. 4a.1.1.1.](#)

[6.10.2.4.1.49a.1.1.2](#) [Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB](#)

[See clause 6.10.2.4.1.13.1.1.1.](#)

[6.10.2.4.1.49a.1.1.3](#) [Transport channel parameters for UL:3.4 kbps SRBs for DCCH](#)

[See clause 6.10.2.4.1.2.1.1.1.](#)

[6.10.2.4.1.49a.1.1.4](#) [TFCS](#)

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,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.1.2](#) [Physical channel parameters](#)

DPCH Uplink	Min spreading factor	16
	Max number of DPDCH data bits/frame	2400
	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 Downlink	DTX position		Flexible
	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

<End of modified section>

CHANGE REQUEST

⌘ **34.108 CR 099** ⌘ rev **-** ⌘ Current version: **3.7.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction of Puncturing Limit for several RAB configurations
Source:	⌘ Ericsson
Work item code:	⌘ <input type="text"/>
Date:	⌘ 2002-04-04
Category:	⌘ F
Use <u>one</u> of the following categories:	
F (correction)	
A (corresponds to a correction in an earlier release)	
B (addition of feature),	
C (functional modification of feature)	
D (editorial modification)	
Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	
Release:	⌘ R99
Use <u>one</u> of the following releases:	
2 (GSM Phase 2)	
R96 (Release 1996)	
R97 (Release 1997)	
R98 (Release 1998)	
R99 (Release 1999)	
REL-4 (Release 4)	
REL-5 (Release 5)	

Reason for change:	⌘ The Puncturing limit of some RAB combinations is set in such a way that the possibility for UTRAN to do Transport Channel balancing is reduced.
Summary of change:	⌘ The Puncturing limit of the following RAB combinations is corrected: 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH. PL is changed from 0.96 to 0.88. 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH. PL is changed from from 0.96 to 0.88. 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 PL is changed from 0.88 to 0.76. 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. PL is changed from 1 to 0.88. 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 PL is changed from 0.88 to 0.72. 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 PL is changed from from 0.80 to 0.64.
Consequences if not approved:	⌘ Transport channel balancing of the RAB combinations is impaired.

Clauses affected:	⌘	6.10.2.4.1
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>

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/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	32000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	4236	
	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 size	10
TFCS	(32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)

6.10.2.4.1.23c.1.2 Physical channel parameters

DPCH Uplink	Min spreading factor	32
	Max number of DPDCH data bits/radio frame	1200
	Puncturing Limit	0.96 0.88

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	32000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	4236	
RM attribute	135-175		

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23c.2.1.3 TFCS

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

6.10.2.4.1.23c.2.2 Physical channel parameters

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

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

6.10.2.4.1.23d.1 Uplink

6.10.2.4.1.23d.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23d.1.1.3 TFCS

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

6.10.2.4.1.23d.1.2 Physical channel parameters

DPCH Uplink	Min spreading factor	32
	Max number of DPDCH data bits/radio frame	1200
	Puncturing Limit	0.96 0.88

6.10.2.4.1.23d.2 Downlink

6.10.2.4.1.23d.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23d.2.1.3 TFCS

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

6.10.2.4.1.23d.2.2 Physical channel parameters

DPCH Downlink	DTX position	Flexible
	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

<End of modified section>

<Start of modified section>

6.10.2.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.1.1.1.

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

Higher Layer	RAB/Signalling RB	RAB	RAB	
RLC	Logical channel type	DTCH	DTCH	
	RLC mode	AM	AM	
	Payload sizes, bit	320	320	
	Max data rate, bps	64000	64000	
	AMD PDU header, bit	16	16	
MAC	MAC header, bit	4	4	
	MAC multiplexing	2 logical channel multiplexing		
Layer 1	TrCH type	DCH		
	TB sizes, bit	340		
	TFS	TF0, bits	0x340	
		TF1, bits	1x340	
		TF2, bits	2x340	
		TF3, bits	3x340	
		TF4, bits	4x340	
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	4284		
Uplink: Max number of bits/radio frame before rate matching	2142			
RM attribute	130-170			

6.10.2.4.1.38d.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,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 Uplink	Min spreading factor	16
	Max number of DPDCH data bits/radio frame	2400
	Puncturing Limit	0.88 0.76

6.10.2.4.1.38d.2 Downlink

6.10.2.4.1.38d.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.2.1.1.

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

Higher Layer	RAB/Signalling RB		RAB	
RLC	Logical channel type	DTCH	DTCH	
	RLC mode	AM	AM	
	Payload sizes, bit	320	320	
	Max data rate, bps	64000	64000	
	AMD PDU header, bit	16	16	
MAC	MAC header, bit	4	4	
	MAC multiplexing	2 logical channel multiplexing		
Layer 1	TrCH type	DCH		
	TB sizes, bit	340		
	TFS	0x340	0x340	
		1x340	1x340	
		2x340	2x340	
		3x340	3x340	
		4x340	4x340	
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	4284		
RM attribute	130-170			

6.10.2.4.1.38d.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,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 Downlink	DTX position		Flexible
	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

<End of modified section>

<Start of modified section>

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

6.10.2.4.1.38g.1 Uplink

6.10.2.4.1.38g.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1.

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38g.1.1.4 TFCS

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

6.10.2.4.1.38g.1.2 Physical channel parameters

DPCH Uplink	Min spreading factor	32
	Max number of DPDCH data bits/radio frame	1200
	Puncturing Limit	4.0 0.88

6.10.2.4.1.38g.2 Downlink

6.10.2.4.1.38g.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38g.2.1.4 TFCS

TFCS size	36
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,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 Downlink	DTX position		Flexible
	Spreading factor		64
	DPCCH	Number of TFCl 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

<End of modified section>

<Start of modified section>

6.10.2.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51a.1 Uplink

6.10.2.4.1.51a.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.2.1.1.

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

See clause 6.10.2.4.1.37.1.1.1.

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.51a.1.1.4 TFCS

TFCS size	8
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, 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 Uplink	Min spreading factor	16
	Max number of DPDCH data bits/radio frame	2400
	Puncturing Limit	0.88 0.72

6.10.2.4.1.51a.2 Downlink

6.10.2.4.1.51a.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.2.1.1.

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

See clause 6.10.2.4.1.38b.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.51a.2.1.4 TFCS

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

6.10.2.4.1.51a.2.2 Physical channel parameters

DPCH Downlink	DTX position		Flexible
	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/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	16000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	2124	
	Uplink: Max number of bits/radio frame before rate matching	531	
RM attribute	135-175		

6.10.2.4.1.51b.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 Uplink	Min spreading factor	16
	Max number of DPDCH data bits/radio frame	2400
	Puncturing Limit	0.80 0.64

6.10.2.4.1.51b.2 Downlink

See clause 6.10.2.4.1.51.2.

<End of modified section>

CR-Form-v4
CHANGE REQUEST
⌘ 34.108 CR 100 ⌘ ev - ⌘ Current version: 3.7.1 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ CR for 34.108 R99 Test USIM		
Source:	⌘ NTTDoCoMo		
Work item code:	⌘ TEI	Date:	⌘ 2002-04-02
Category:	⌘ F	Release:	⌘ R99
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification)		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		

Reason for change:	⌘ Reference document number is not correct.		
Summary of change:	⌘ "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 TS34.123-1 ." Modified to; "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 ."		
Consequences if not approved:	⌘ Error reference information will remain.		

Clauses affected:	⌘ 8.1		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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~~TS34.123-1~~.

CHANGE REQUEST

⌘ **TS 34.108 CR 101** ⌘ rev - ⌘ Current version: **3.7.1** ⌘
Spec Title: Common Test Environments for User Equipment (UE) ⌘
 Conformance Testing

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Corrections to SIBs TDD		
Source:	⌘ Siemens		
Work item code:	⌘ TEI	Date:	⌘ 20 March 2002
Category:	⌘ F	Release:	⌘ R99
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ SIBs are updated according with the updates in the core specifications.
Summary of change:	⌘ In clause 6.1 missing IEs are added. Contents of Scheduling Block 1 <ul style="list-style-type: none"> - Scheduling information already included in Master Information Block is deleted. - Some values are corrected. System Information Block type 3, 4, 5, 6, 11 and 12 updated: <ul style="list-style-type: none"> - Cell selection_and_reselection_quality_-measure is not used for TDD - Qrxlevmin corrected to -103 dBm - Editorial corrections in general - AC-to-ASC mapping is nor present in SIB 6 Some IEs are missing. From T1S-020206 (Ericsson CR): In SIB 12, the serving cell is not included, since it has already been included in SIB 11.
Consequences if not approved:	⌘ The test proses in TS 34.123-1 cannot test UE correctly.

Clauses affected:	⌘	
Other specs affected:	⌘	Other core specifications
		Test specifications
		O&M Specifications
Other comments:	⌘	Affects Rel 99 and Rel '4 UE test cases
		References: T1S-010361r1, T1S-020021r3

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6 Reference System Configurations

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

6.1 Simulated network environments

The UE will eventually have to operate in either single mode networks (FDD or TDD) and dual mode networks (FDD+TDD).

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

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

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

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

- MIB value tag	1
- Supported PLMN types	GSM-MAP
- PLMN type	
- PLMN identity	Set to the same Mobile Country Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MCC digit	Set to the same Mobile Network Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MNC digit	Not Present
- ANSI-41 Core Network information	
- References to other system information blocks and scheduling blocks	
- References to other system information blocks	
- Scheduling information	Cell Value Tag
- CHOICE Value tag	1
- Cell Value tag	
- Scheduling	
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	1
- SIB_POS offset info	Not Present – use default
- SIB type	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	11
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 1
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	11
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 2
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	10
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 3

- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	26
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 4
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	19
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB type	System Information Type 5

Contents of Scheduling Block 1 (FDD)

- 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	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	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	29
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	13
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	18

- SIB_POS offset info - SIB type SIBs only	Not Present System Information Type 18
---	---

Contents of Scheduling Block 1 (TDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	128
- SIB_POS	26
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 5
- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	3 4
- SEG_COUNT	128
- SIB_REP	4 23
- SIB_POS	
- SIB_POS offset info	
<u>- SIB_OFF</u>	<u>4</u>
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	
- CHOICE Value tag	<u>Not Present</u> Cell Value tag
- Cell Value tag	4
- SEG_COUNT	1
- SIB_REP	16 128
- SIB_POS	2 22
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 7
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2 3
- SIB_REP	64 128
- SIB_POS	58 29
- SIB_POS offset info	
<u>- SIB_OFF</u>	<u>2</u>
- 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	2 3
- SIB_REP	64 128
- SIB_POS	13 106
- SIB_POS offset info	
<u>- SIB_OFF</u>	<u>2</u>
- 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	6 1

- SIB_REP	64 128
- SIB_POS	74
- SIB_POS offset info	<u>Not Present</u>
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	8
- SIB_OFF	4
- SIB_OFF	2
- SIB type SIBs only	System Information Type 186

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

- CN common GSM-MAP NAS system information	
- GSM-MAP NAS system information	00 80H
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00H
- CN domain specific DRX cycle length coefficient	7
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	1E 01H
- CN domain specific DRX cycle length coefficient	7
- UE Timers and constants in idle mode	
- T300	4000 milliseconds
- N300	7
- T312	10 seconds
- N312	200
- 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	20
- T314	20 seconds
- T315	30 seconds
- N315	200
- T316	50 seconds
- T317	1800 seconds

Contents of System Information Block type 2

- URA identity list	<i>Only 1 URA identity broadcasted</i>
- URA identity	0000 0000 0000 0001B

Contents of System Information Block type 3 (FDD)

- SIB4 indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not Present
- Cell selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not Present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- Slimit,SearchRAT	Not Present
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	33dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 3 (TDD)

- SIB4 Indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not present
- Cell selection_and_reselection_quality_measure	(no data)CPICH RSCP
- 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	-103-115 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping Info	Not present
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- S _{limit,SearchRAT}	Not Present
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	33dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Access Class Barred	Not barred
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 4 in connected mode (similar to SIB type3)
(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) CPICH-RSCP
- 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,SsearchRAT	Not Present
- Qrxlevmin	- 103 44 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor β_c	11
- Gain factor β_d	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B

- ASC Setting	FDD
- CHOICE mode	0 (ASC#2)
- Available signature Start Index	7 (ASC#2)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#3)
- Available signature Start Index	7 (ASC#3)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#4)
- Available signature Start Index	7 (ASC#4)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#5)
- Available signature Start Index	7 (ASC#5)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#6)
- Available signature Start Index	7 (ASC#6)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#7)
- Available signature Start Index	7 (ASC#7)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	2
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible

- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	Complete reconfiguration
- CHOICE TFCS representation	
- TFCS complete information	4 bit
- CHOICE CTFC Size	0
- CTFC information	Not Present
- Power offset information	1
- CTFC information	Not Present
- Power offset information	2
- CTFC information	Not Present
- Power offset information	3
- CTFC information	Not Present
- Power offset information	4
- CTFC information	Not Present
- Power offset information	5
- CTFC information	Not Present
- Power offset information	6
- CTFC information	Not Present
- Power offset information	8
- CTFC information	Not Present
- Power offset information	10
- CTFC information	Not Present
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- 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	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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

Contents of System Information Block type 5 (TDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE <i>mode</i>	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- Block SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- 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	<u>Configured</u> ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	
- ASC Settings	(ASC#0)
- CHOICE mode	TDD

- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	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 nd 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	
- Timeslot number	1
- TFCI existence	Reference clause 6.10 Parameter Set
- Midamble Shift and burst type	
- CHOICE Burst Type	Type 1
- Midamble Allocation Mode	Default midamble
- Midamble configuration burst type 1 and	4

<ul style="list-style-type: none"> -Midamble Shift - Code List - Channelisation Code 	Not Present
<ul style="list-style-type: none"> - TFCS 	(This IE is repeated for Code number for PCH and FACH) (This IE is repeated for TFC number for PCH and FACH.)
<ul style="list-style-type: none"> -<u>CHOICE TFCS signalling</u> - Normal - TFCS Field 1 information - CHOICE TFCS representation - TFCS complete addition information - CHOICE CTFC Size 	<u>Complete reconfiguration</u> Addition
<ul style="list-style-type: none"> - CTFC information - Power offset information 	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
<ul style="list-style-type: none"> - 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 	(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 Reference clause 6.10 Parameter Set ALL
<ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator 	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)
<ul style="list-style-type: none"> - 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 	(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 Reference clause 6.10 Parameter Set ALL
<ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator 	Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set 13 (for FACH) FALSE (FACH)
<ul style="list-style-type: none"> - 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 	(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 Reference clause 6.10 Parameter Set ALL
<ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator 	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 14 (for FACH) FALSE
<ul style="list-style-type: none"> - PICH info - CHOICE <i>mode</i> 	TDD
Channelisation code	16/16

- Timeslot number	0
- Midamble shift and burst type	Type 1
- CHOICE Burst Type	0
- Midamble Shift	16/16
- Channelisation code	64/2
- Repetition period/length	0
- Offset	4
- Paging indicator length	4
- N _{GAP}	2
- N _{PCH}	Not Present
- CBS DRX Level 1 information	

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	
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	11
- Gain factor βd	15

- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping	Not Present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	2
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system info	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used

- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- CTFC information	6
- Power offset information	Not Present
- CTFC information	8
- Power offset information	Not Present
- CTFC information	10
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240 (PCCH)
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- 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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- Block SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number)
- 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 ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set

- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- 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	Not Present
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 nd interleaving mode	Not Present (MD "Frame")
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	Not Present (MD "1")

- Repetition length	Not present
- Individual timeslot info	
- Timeslot number	1
- TFCI existence	Reference clause 6.10 Parameter Set
- Midamble Shift and burst type	
- CHOICE Burst Type	Type 1
- Midamble Allocation Mode	Default midamble
- Midamble configuration burst type 1 and 3	4
- Midamble Shift	Not Present
- Code List	
- Channelisation Code	Reference clause 6.10 Parameter Set
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration Addition
- TFCS complete reconfiguration addition	
information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CTFC information	Reference clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	13 (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- 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	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set

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

Contents of System Information Block type 7 (FDD)

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

Contents of System Information Block type 7 (TDD)

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

- SIB12 indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	33 dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement quantity	CPICH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	FALSE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode	Event trigger
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	2 kinds

- Intra-frequency event identity	1a
- Triggering condition 1	Not Present
- Triggering condition 2	Active set cells and monitored set cells
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3
- Replacement activation threshold	Not Present
- 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
- Intra-frequency event identity	1b
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	Not Present
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

Contents of System Information Block type 11 (TDD)

- SIB 12 Indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	(no data) CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE False
- CHOICE mode	TDD
- Primary CCPCH info	
- Cell parameters ID	Reference clause 6.1 Default settings for cell
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Timeslot number	Not Present
- Burst type	Not Present

- Cell Selection and Re-selection info	Not Present
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	0
- Filter coefficient	TDD
- CHOICE mode	
- Measurement quantity list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH Reporting	
-SFN-SFN observed time difference	No report
- CHOICE mode	TDD
- Reporting quantity list	
- Reporting quantity	No report
- Maximum number of reported cells on RACH	No report
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference	No report
reporting indicator	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger	Event trigger
Reporting Mode	
<u>-CHOICE report criteria</u>	
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	
- Intra-frequency event identity	1g
- Triggering condition1	Not Present
- Triggering condition2	Not Present
- Reporting Range	Not Present
- cells forbidden to affect reporting range	Not Present
- W(optional in case of 1a,1b)	Not Present
- Hysteresis	0.0
- Threshold used frequency	Not Present
- Reporting deactivation threshold	3 Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4 Infinity
- Reporting interval	40000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	32
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present

- UE internal measurement system information	Not Present
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Contents of System Information Block type 12 in connected mode (FDD)

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause "Default settings for cell No.1 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset _{s,n}	0 dB
- Qoffset _{2s,n}	Not Present
- Maximum allowed UL TX power	33dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement quantity	CPICH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	TRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode	Event trigger
- CHOICE report criteria	Intra-frequency measurement reporting criteria

- Intra-frequency measurement reporting criteria	
- Parameters required for each event	1a
- Intra-frequency event identity	Not Present
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	5dB
- Reporting Range	Not Present
- Cells forbidden to affect reporting range	1.0
- W	0.0
- Hysteresis	Not Present
- Threshold Used Frequency	3
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	640
- Time to trigger	4
- Amount of reporting	0
- Reporting interval	
- Reporting cell status	
- CHOICE reported cell	Report cell Within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Intra-frequency event identity	1b
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	Not Present
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	(no data) CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
Intra-frequency cell info list	
CHOICE intra-frequency cell removal	Remove no intra-frequency cells
New intra-frequency cells	
Intra-frequency cell id	10
Cell info	
Cell individual offset	0dB
Reference time difference to cell	Not Present
Read SFN Indicator	TRUE False
CHOICE mode	TDD
Primary CCPCH info	
Cell parameters ID	Reference clause 6.1 Default settings for cell
Primary CCPCH TX power	Not Present
Timeslot list	Not Present

Timeslot number	Not Present
Burst type	
Cell Selection and Re-selection info	Not Present
Cell for measurement	Not present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- CHOICE mode	TDD
- Measurement list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH Reporting	
-SFN-SFN observed time difference	No report
- CHOICE mode	TDD
- Reporting quantity list	
- Reporting quantity	No report
- Maximum number of reported cells on RACH	No report
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference	No report
reporting indicator	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger	Event trigger
Reporting Mode	
<u>-CHOICE report criteria</u>	
- 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	3Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4Infinity
- Reporting interval	40000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	32
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present

- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

CR-Form-v4
CHANGE REQUEST
⌘ 34.108 CR 102 ⌘ ev - ⌘ Current version: 3.7.1 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ References for TDD about Clarification of bit rate of Interactive/Background PS RAB
Source:	⌘ Siemens
Work item code:	⌘ TEI Date: ⌘ 2002-03-20
Category:	⌘ F Release: ⌘ R99 Use <u>one</u> of the following categories: Use <u>one</u> of the following releases: F (correction) 2 (GSM Phase 2) A (corresponds to a correction in an earlier release) R96 (Release 1996) B (addition of feature), R97 (Release 1997) C (functional modification of feature) R98 (Release 1998) D (editorial modification) R99 (Release 1999) Detailed explanations of the above categories can REL-4 (Release 4) be found in 3GPP TR 21.900 . REL-5 (Release 5)

Reason for change:	⌘ TDD RABs are included in section 6.10.3 in TS 34.108
Summary of change:	⌘ Reference to section 6.10.3 for TDD mode is included
Consequences if not approved:	⌘

Clauses affected:	⌘ 6.10.1
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.10 Reference Radio Bearer configurations used in Radio Bearer interoperability testing

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

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

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

6.10.1 QoS Architecture and RAB attributes

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

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

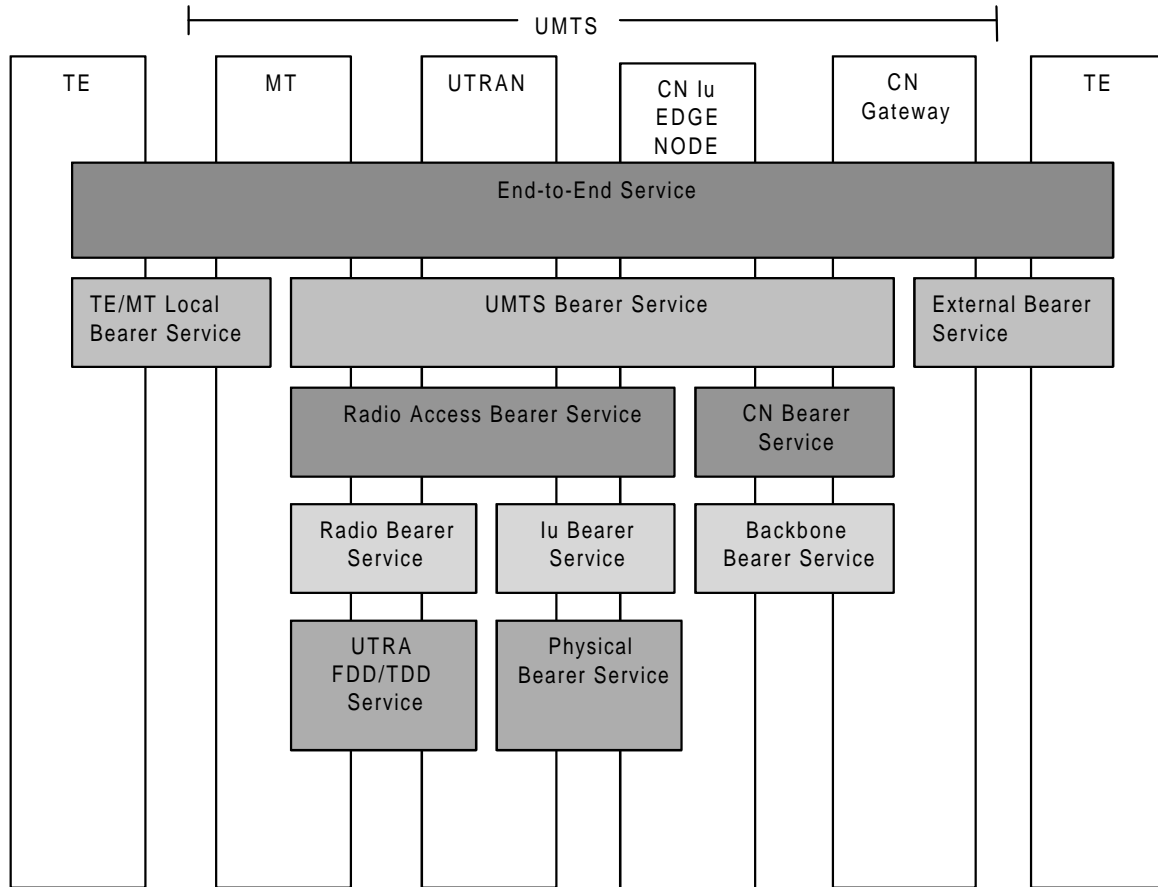


Figure 6.10.1.1: UMTS QoS Architecture

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

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

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

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

Table 6.10.1.1: Traffic classes

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

CHANGE REQUEST

⌘ **TS 34.108 CR 103** ⌘ rev - ⌘ Current version: **3.7.1** ⌘
Spec Title: Common Test Environments for User Equipment (UE) ⌘
Conformance Testing

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Corrections to default message in clause 9 of TS 34.108		
Source:	⌘ MCI		
Work item code:	⌘ TEI	Date:	⌘ 22 nd May 2002
Category:	⌘ F Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Release:	⌘ R99 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change: ⌘	<ol style="list-style-type: none">1. Transfer Annex A of TS 34.123-1 and all its corrections which were presented in T1/SIG #22 meeting into clause 9 of TS 34.108.2. Merge all corrections to clause 9 of TS 34.108 that were presented in T1/SIG #22 meeting in this CR.3. When IE “RRC state indicator” is set to “URA_PCH” or “CELL_PCH”, IE “UTRAN DRX cycle length coefficient” has to be included.4. Editorial. <p>From T1S-020293 and T1S-020299,</p> <p>The corrections to default message included in this CR are proposed for the following reasons:</p> <ul style="list-style-type: none">• To align with the latest revision of the core specifications• To include currently missing indication of not present IEs in the default configurations.• To introduce information that is typically needed in real network configurations• To introduce the 13.6 kbps signalling radio bearer in RRC connection setup procedure as was agreed at T1/SIG#22 (T1S-020156). Current generic setup procedures use the 3.4 kbps signalling radio bearer. The 13.6 kbps signalling radio bearer would represent a more likely configuration to be used in real network as it provides for better signalling performance, e.g. a faster call setup.• To avoid transmission of redundant information (efficiency)
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Revision 3:

During transition to CELL_FACH, UE should configured the physical resources immediately.

Summary of change: ⌘ Revision 3 corrections:

Editorial correction based on cross-checking with T1S-020293r1 and T1S-020299 colour coded in Orange/Red

Activation time for transition to CELL_FACH are set to “Not Present”.

For configuration of CTFC information, reference to clause 6.10.2.4 of TS 34.108 are provided in the case of FDD messages.

New corrections

1. The IE “UTRAN DRX cycle length coefficient” is set to 3 in URA UPDATE message in because the IE “RRC State Indicator” is set “URA_PCH”.

From T1S-020293,

Changes to messages in clause 9.1:

1. Contents of DOWNLINK DIRECT TRANSFER message: AM
 - a. Changed RRC transaction identifier value from “0” to “Arbitrarily selects an integer between 0 and 3”.
2. INITIAL DIRECT TRANSFER message: AM
 - a. Clarified remark for CN domain identity IE (to be checked against IXIT statement).
 - b. Details for Intra Domain NAS Node Selector added
 - c. Added missing “START” IE (marked as not checked)
3. RADIO BEARER SETUP message: AM or UM (Speech in CS)
 - a. Changed RRC transaction identifier value from “0” to “Arbitrarily selects an integer between 0 and 3”.
 - b. Changed “Ciphering mode info” to “Not present” and remove the related IEs. Normal RB SETUP should not have Integrity protection mode info or ciphering info.
 - c. The SRB should be reconfigured from 13.6 kbps, which is the default configuration to 3.4 kbps, when setting up the speech RAB.
 - d. MAC logical channel priority for speech DCHs should be set to 7 The priority for speech should be lower than for signalling. Though the priority for speech should be higher than for packet RAB. So the packet RAB priority value is changed from 6 to 8.
 - e. The need for IE “Frequency info” is MD and the IE not need be included if the frequency to be used is the same as the currently used one. It should be removed to avoid transmission of redundant information (efficiency)

- f. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed
4. RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS)
- Same changes as for "RADIO BEARER SETUP message: AM or UM (Speech in CS)" applies. In addition following changes are made:
- a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".
 - b. Changed "Ciphering mode info" to "Not present" and remove the related IEs. Normal RB SETUP should not have Integrity protection mode info or ciphering info.
 - c. The setting of IE "SDU discard" is changed to "No discard" for UM and AM signalling radio bearers. The use of SDU discard is not suitable for signaling radio bearers because neither RRC nor NAS is designed to cope with loss of messages. For SRB 1 (UM) this implies that IE SDU discard mode is removed, while for SRB 2, 3, 4 this implies that Timer_MRW and MaxMRW are removed. Furthermore, IE "MAX_DAT" has been changed from 4 to 15. The value of 4 is considered too low and may result in release of the connection in case of temporarily bad radio conditions. The value of 15 is considered to be more suitable for real network configurations.
 - d. The value of IE "Transmission window size" and "Receiving window size" changed from 8 to 128. In real network configurations the round trip time is expected to be in the order of 100 ms or larger. In such networks a window size of 8 could mean that the protocol is stalled most of the time. A higher window size is needed to prevent this. Moreover, the value of 128 is aligned with the L2 for L2 testing (34.123-1 clause 7.2.3)
 - e. Within IE Polling info, IE "Poll-PDU" and IE "Timer_poll_periodic" are missing. The IEs have been added to the table, with status set to "Not present"
 - f. The IE "Timer_EPC" is set to "Not present". The EPC function can not be used for RBs with more than logical channel per transport channel, since this is not covered by the core specification. Moreover, the function is currently not verified by any test case in 34.123-1. Considering this, it does not make sense to include this IE in the default messages
 - g. Within IE Downlink RLC status info, IE "Timer_STATUS_periodic" is missing. The IE has been added to the table, with status set to "Not present"
 - h. The SRB should be reconfigured from 13.6 kbps, which is the default configuration to 3.4 kbps, when setting up the speech RAB.
 - i. Change MAC logical channel priority for DCH multiplexing option to 8.
 - j. Change re-establishment timer to T315
 - k. Add PDCP info with contents
5. RADIO BEARER SETUP COMPLETE message: AM
- a. The condition a) for including IE "COUNT-C activation time is rephrased to clarify that the IE is needed if the reconfiguration command message contained the IE "Ciphering activation time for DPCH" and the first RB

mapped onto RLC TM for a CN domain is established/ the last RB(s) mapped to RLC-TM for a CN domain is released.

6. RRC CONNECTION RELEASE message: UM

- a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".

7. RRC CONNECTION REQUEST message: TM

Following changes from T1S-020158r1 agreed at T1/SIG#22 have been included

- a. For IE "Initial UE identity" the ID type is changed from IMSI (GSM MAP) to TMSI and LAI (GSM MAP) since this is considered to be the normal case.
- b. For IE "Measured results on RACH" the remark is changed from "Not checked" into "To be checked against requirement if specified" (See corresponding change to SIB type 11, as introduced in a corresponding CR covering SIB 11/ 12. The reason for adding this information is that UTRAN will typically need CPICH Ec/N0 of the serving cell to determine the initial power setting for the UE)

8. RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) – clause 9.1

New changes not covered by T1S-020156 and T1S-020158r1 are (high-ligthed in blue in the CR):

- a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".
- b. Within IE "UL DCH TFCS" the CHOICE Gain Factors, the text inbetween brackets erroneously stated that the last TFC is also set to Computed rather than Signalled Gain Factors. This error has been corrected.
- c. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed
- d. IE "Default DPCH frame offset" is changed from 0 to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. The reason for the change is that the IE can have any value and that the use of value 0 does not include a proper cover that the UE verifies that the two IEs have corresponding values

2. SECURITY MODE COMMAND message: AM

- a. The supported algorithms in Security capability must match the capabilities signalled by the UE. Note that more than one algorithm can be supported. Affects IEs UEA0, UEA1 and Ciphering algorithm.
- b. The setting of the spare bits for the supported security algorithms are clarified (not a single BOOLEAN but multiple bits in ASN.1)
- c. CN domain identity changed from 'Supported domain' to 'CS or PS'

3. UPLINK DIRECT TRANSFER message: AM

- a. Remark for CN domain identity IE changed. Checked to see if set to a CN domain for which a signalling connection exists (instead of against the IXIT statement).

Changes to messages in clause 9.2:

4. RADIO BEARER SETUP message: AM or UM

Same changes as to "RADIO BEARER SETUP message: AM or UM" in clause 9.1.

5. RRC connection setup message: UM

Same changes as to "RRC connection setup message: UM (Transition to CELL_DCH)" in clause 9.1

6. SECURITY MODE COMMAND message: AM

Same changes as to "SECURITY MODE COMMAND message: AM" in clause 9.1.

From T1S-020299,

Changes to Annex A.1 (Default messages for FDD):

1. ACTIVE SET UPDATE message: AM

- a. Change IE "Maximum allowed UL Txpower" to Not present as typically an ACTIVE SET UPDATE would not cause a change to Maximum allowed UL Txpower (the currently configured maximum allowed UL TX power remains applicable). Therefore, the IE should be removed to avoid transmission of redundant information (efficiency).

2. MEASUREMENT CONTROL message: AM

- a. Change of IE "Measurement reporting/Event trigger reporting Mode" due to an inconsistency between this IE and what is actually defined in the MEASUREMENT CONTROL (this IE is set to "Event triggered" while the measurement defined in the message is a periodical one)
- b. "Intra-frequency measurement quantity" changed to Not present as there is no use defining Measurement quantity when periodical measurement is used (Measurement quantity defines what shall be the input to check whether a triggering condition has been fulfilled or not).

3. PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

- a. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values

4. PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

- a. The condition a) for including IE "COUNT-C activation time is rephrased to clarify that the IE is needed if the reconfiguration command message contained the IE "Cipherying activation time for DPCH" and the first RB mapped onto RLC TM for a CN domain is established/ the last RB(s) mapped to RLC-TM for a CN domain is released

5. RADIO BEARER SETUP message: AM or UM

- a. Normal RB SETUP should not have Integrity protection mode info and cipherying info; so remove Cipherying mode info, since current group is not valid.
- b. MAC logical channel priority for speech DCHs should be set to 7 The priority for speech should be lower than for signalling. Though the priority for speech should be higher than for packet RAB. So the packet RAB priority value is changed from 6 to 8.
- c. The need for IE "Frequency info" is MD and the IE not need be included if the frequency to be used is the same as the currently used one. It should be removed to avoid transmission of redundant information (efficiency)

- d. Change re-establishment timer to T315
 - e. Add PDCP info with contents for PS case
 - f. Make Maximum allowed UL Tx power absent for A5 and A6 case (should use currently configured), the UE shall apply the value included in the IE contained in System Information Block type 3. This SIB includes exactly the same value. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
 - g. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed
 - h. For condition A4, A7, A8 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values.
 - i. Changed explanation of A1, A2, A7 and A8 to be consistent with explanation of other conditions (i.e. to <state> from <state>).
6. RADIO BEARER RECONFIGURATION message: AM or UM
- a. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values
7. RADIO BEARER RELEASE message: AM or UM
- a. "Added or Reconfigured UL TrCh information" and " Added of Reconfiguration DL TrCH information" should be included for A1, A2, A3, and A5, in order to reconfigure the SRB from 3.4 kbps to 13.6 kbps
 - b. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values
8. RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)
- a. Value of "RRC transaction Identifier" changed from 0 to "Arbitrarily selects an integer between 0 and 3"
 - b. If the IE "RB identity" is absent, the UE shall apply the default value of 1 for the first IE "Signalling RB information to setup" and increase this default by 1 for each occurrence of IE "Signalling RB information to setup". Thus, absence of the IE will have exactly the same result. IE "RB identity" should be removed to avoid transmission of redundant information (efficiency)
 - c. Both for UL & DL, IE "Added or Reconfigured TrCH information list" shall be included in the message even though it is not needed when transiting to CELL_FACH. For several parameters a reference to the general clause 6.10 of 34.108 specifying the default RABs was included. Since the UE is directed to CELL_FACH/ a configuration on SCCPCH, it is unclear which configuration in 6.10 applies for these parameters. There are two options, as indicated below. The proposal is to apply option A, which is suggested

in TS 25.331

A) UTRAN includes a configuration that adds little to the encoded message size e.g. a DCH with a single zero size transport format. At a later stage, UTRAN may either remove or reconfigure this configuration

B) UTRAN includes a basic configuration for use in CELL_DCH i.e. the TrCH configuration to support signalling. When moving to CELL_DCH, UTRAN can use this as basis and modify it depending on how the traffic channels are mapped

- d. IE "Transparent mode signalling info" has been removed from 25.331 (related to the move of the TM TrCH to REL-4)
 - e. The need for IE "Frequency info" is MD and the IE not need be included if the frequency to be used is the same as the currently used one. It should be removed to avoid transmission of redundant information (efficiency)
 - f. If the IE max_allowed_UL_TX_power is absent, the UE shall apply the value included in the IE contained in System Information Block type 3. This SIB includes exactly the same value. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
 - g. RRC specifies that when entering CELL_FACH, the UE shall ignore the IE "Primary CPICH info" if received. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency). The proposal is to set IE "Downlink information for each radio link list" to "Not present", since this IE carries no other information
9. TRANSPORT CHANNEL RECONFIGURATION message: AM or UM
- a. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed
 - b. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values
10. TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM
- a. The condition a) for including IE "COUNT-C activation time is rephrased to clarify that the IE is needed if the reconfiguration command message contained the IE "Ciphering activation time for DPCH" and the first RB mapped onto RLC TM for a CN domain is established/ the last RB(s) mapped to RLC-TM for a CN domain is released

Approved corrections in T1/SIG #22 meeting (highlighted in yellow)

From T1S-020138r1

1. In several messages, IE "Timer_poll_periodic" is missing in IE "Polling info" and IE "Timer_STATUS_periodic" is missing in IE "Downlink RLC status info". Both have been included and set to 'Not Present'.
2. RF messages have been revised to align with Signalling messages.
3. In RADIO BEARER SETUP message for RF, IE "CPCH set IE" and IE "Added or Reconfigured TrCH information for DRAC list" are missing. These IEs have

been added.

From T1S-020137r1

1. In condition A5 and A6 of PHYSICAL CHANNEL RECONFIGURATION message, RADIO BEARER SETUP message, RADIO BEARER RECONFIGURATION message, RADIO BEARER RELEASE message and TRANSPORT CHANNEL RECONFIGURATION message, a valid value for IE “New C-RNTI” is added.
2. In several messages, IE “Timer_poll_periodic” is missing in IE “Polling info” and IE “Timer_STATUS_periodic” is missing in IE “Downlink RLC status info”. Both have been included and set to ‘Not Present’.
3. In RADIO BEARER SETUP message, IE “CHOICE mode” is duplicated, therefore, it has been removed.
4. In condition A4 of RADIO BEARER RELEASE message, IE “Deleted UL TrCH information” and IE “Deleted DL TrCH information” are set to “Not Present” because these transport channels are not available when UE is in CELL_FACH state.
5. Whenever, transport channel is added or removed, TFCS has to be updated. Therefore in condition A5 and A6 of RADIO BEARER RELEASE message, TFCS has to be included.
6. Condition A7, whereby CS UE transit from CELL_DCH to CELL_FACH for non-speech, is added to RADIO BEARER RELEASE message. Condition A8, whereby CS UE transit from CELL_DCH to CELL_FACH for speech, is added to RADIO BEARER RELEASE message.

From T1S-020154

Removal of “Power Offset Informaion” IE in RB SETUP (from cell_DCH to cell_DCH in PS)

From T1S-020156 (Ericsson)

For applicable signalling radio bearer parameters in the “RRC CONNECTION SETUP message: UM (Transition to CELL_DCH)”:

Replaced general references to parameter set in TS 34.108 clause 6.10 with a explicit reference to the 13.6 kbps signalling radio bearer (TS 34.108 clause 6.10.2.4.1.3) .

Same corrections are included in default messages that were transferred from Annex A of TS 34.123-1 to clause 9 of TS 34.108 in T1S-020161.

From T1S-020158r1

RRC connection request message: TM

- For IE “Measured results on RACH” the remark is changed from “Not checked” into “To be checked against requirement if specified” (See corresponding change to SIB type 11, as introduced in a corresponding CR covering SIB 11/ 12. The reason for adding this information is that UTRAN will typically need CPICH Ec/N0 of the serving cell to determine the initial power setting for the UE)

RRC connection setup message: UM (Transition to CELL_DCH)

- C-RNTI is removed upon transition to CELL_DCH. Hence it should not be assigned in this case
- The IE “Capability update requirement” has been added, set to request both the UE radio access capabilities and the GSM capabilities. It will be beneficial for networks to request this information during connection establishment so that e.g. measurement on GSM neighbouring cell may be activated immediately. The tests should cover this case which is considered quite normal
- If the IE “RB identity” is absent, the UE shall apply the default value of 1 for the first IE "Signalling RB information to setup" and increase this default by 1 for each occurrence of IE "Signalling RB information to setup". Thus, absence of the IE will have exactly the same result. IE “RB identity should be removed to avoid transmission of redundant information (efficiency)
- The setting of IE “SDU discard” is changed to “No discard” for UM and AM signalling radio bearers. The use of SDU discard is not suitable for signaling radio bearers because neither RRC nor NAS is designed to cope with loss of messages. For SRB 1 (UM) this implies that IE SDU discard mode is removed, while for SRB 2, 3, 4 this implies that Timer_MRW and MaxMRW are removed. Furthermore, IE “MAX_DAT” has been changed from 4 to 15. The value of 4 is considered too low and may result in release of the connection in case of temporarily bad radio conditions. The value of 15 is considered to be more suitable for real network configurations.
- The value of IE “Transmission window size” and “Receiving window size changed from 8 to 128. In real network configurations the round trip time is expected to be in the order of 100 ms or larger. In such networks a window size of 8 could mean that the protocol is stalled most of the time. A higher window size is needed to prevent this. Moreover, the value of 128 is aligned with the L2 for L2 testing (34.123-1 clause 7.2.3)
- Within IE Polling info, IE “Poll-PDU” and IE “Timer_poll_periodic” are missing. The IEs have been added to the table, with status set to “Not present”
- The IE “Timer_EPC” is set to “Not present”. The EPC function can not be used for RBs with more than logical channel per transport channel, since this is not covered by the core specification. Moreover, the function is currently not verified by any test case in 34.123-1. Considering this, it does not make sense to include this IE in the default messages
- Within IE Downlink RLC status info, IE “Timer_STATUS_periodic” is missing. The IE has been added to the table, with status set to “Not present”
- IE “Transparent mode signalling info” has been removed from 25.331 (related to the move of the TM TrCH to REL-4)
- The need for IE “Frequency info” is MD and the IE not need be included if the frequency to be used is the same as the currently used one. It should be removed to avoid transmission of redundant information (efficiency)
- If the IE max_allowed_UL_TX_power includes is absent, the UE shall apply the value included in the IE contained in System Information Block type 3. This SIB includes exactly the same value. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
- RRC specifies that the UE shall ignore the value received in IE "CFN-targetSFN frame offset". Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
- Within IE “Downlink DPCH power control information”, clarification is added that

IE "CHOICE SF" specifies the number of pilot bits

- IE "Scrambling code change" should be absent rather than set to "no change". The IE relates to compressed mode (CM) using SF/2 method and should be absent since CM is not activated

From T1S-020225 (ASUSTek)

In section 9.1 and 9.2, add IE "New DSCH-RNTI" set to "Not present" into RADIO BEARER SETUP message.

From T1S-020153 (ASUSTek)

1. Change the related IEs in CELL UPDATE and CELL UPDATE CONFIRM messages in AnnexA.
2. Add IE "New DSCH-RNTI" set to "Not present" into CELL UPDATE CONFIRM, PHYSICAL CHANNEL RECONFIGURATION, RADIO BEARER RECONFIGURATION, RADIO BEARER RELEASE, RADIO BEARER SETUP and TRANSPORT CHANNEL RECONFIGURATION messages in Annex A.

From T1S-020194r1 (Ericsson)

1. Transaction id has been added to the UE CAPABILITY CONFIRM message in Annex A.
2. Several other minor error corrections

Consequences if not approved: ☒ The test prose cannot test UE correctly.

Clauses affected: ☒

Other specs affected: ☒ Other core specifications ☒ Test specifications O&M Specifications

Other comments: ☒

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☒ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	<u>Arbitrarily selects one integer between 0 to 3</u>
<u>RRC transaction identifier</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.</u>
<u>Integrity check info</u>	<u>SS calculates the value of MAC-I for this message and writes to this IE.</u>
<u> - message authentication code</u>	<u>SS provides the value of this IE, from its internal counter.</u>
<u> - RRC message sequence number</u>	<u>Not Present</u>
<u>Integrity protection mode info</u>	<u>Not Present</u>
<u>Ciphering mode info</u>	<u>Not Present</u>
<u>Activation time</u>	<u>now</u>
<u>New U-RNTI</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>Downlink counter synchronisation info</u>	<u>Not Present</u>
<u>Maximum allowed UL TX power</u>	<u>Not Present – use default value</u>
<u>Radio link addition information</u>	<u>Not Present</u>
<u>Radio link removal information</u>	<u>Not Present</u>
<u>TX Diversity Mode</u>	<u>None</u>
<u>SSDT information</u>	<u>Not Present</u>

Contents of ACTIVE SET UPDATE COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of ACTIVE SET UPDATE FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Refer to test requirement</u>

Contents of CELL UPDATE message: TM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	<u>Checked to see if it is set to the following values</u>
<u>- SRNC identity</u>	<u>0000 0000 0001B</u>
<u>- S-RNTI</u>	<u>0000 0000 0000 0000 0001B</u>
<u>RRC transaction identifier</u>	<u>Checked to see if it is absent</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>START List</u>	<u>Checked to see if the 'CN domain identity' and 'START' IEs are present for all CN domains supported by the UE</u>
<u>- CN domain identity</u>	<u>Checked to see if it is one of the supported CN domains</u>
<u>- START</u>	<u>Checked to see if it is present</u>
<u>AM_RLC error indication (RB2, RB3 or RB4)</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>AM_RLC error indication (RB>4)</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>Cell update cause</u>	<u>See the test content</u>
<u>Failure cause</u>	<u>Checked to see if it is absent</u>
<u>RB timer indicator</u>	
<u>- T314 expired</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>- T315 expired</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>Measured results on RACH</u>	<u>Not checked</u>

Contents of CELL UPDATE CONFIRM message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	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
<u>RRC transaction identifier</u>	Selects an arbitrary integer between 0 to 3
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
<u>Integrity protection mode info</u>	Not Present
<u>Ciphering mode info</u>	Not Present
<u>Activation time</u>	Not Present – use default value
<u>New U-RNTI</u>	Not Present
<u>New C-RNTI</u>	Not Present
<u>New DSCH-RNTI</u>	Not Present
<u>RRC State indicator</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u>	Not Present
<u>RLC re-establish indicator (RB2, RB3 and RB4)</u>	FALSE
<u>RLC re-establish indicator (RB5 and upwards)</u>	FALSE
<u>CN information info</u>	Not Present
<u>URA identity</u>	0000 0000 0001B
<u>RB information to release list</u>	Not Present
<u>RB information to reconfigure list</u>	Not Present
<u>RB information to be affected list</u>	Not Present
<u>Downlink counter synchronisation info</u>	Not Present
<u>UL Transport channel information common for all transport channels</u>	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	Not Present
<u>CHOICE Mode</u>	FDD
- CPCH set ID	Not Present
- Added or Reconfigured TrCH information for DRAC list	Not Present
<u>DL Transport channel information common for all transport channels</u>	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	Not Present
<u>Frequency info</u>	Not Present
<u>Maximum allowed UL TX power</u>	Not Present
<u>CHOICE channel requirement</u>	Not Present
<u>CHOICE mode</u>	FDD
- Downlink PDSCH information	Not Present
<u>Downlink information common for all radio links</u>	Not Present
<u>Downlink information per radio link list</u>	Not Present

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	<p>Arbitrarily selects an integer between 0 and 30</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.</p> <p>SS provides the value of this IE, from its internal counter. CS domain or PS domain</p> <p>See Specific Message Content for each test case</p>
RRC transaction identifier	
Integrity check info	
- Message authentication code	
- RRC Message sequence number	
CN domain identity	
NAS message	

Contents of INITIAL DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	<p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p>
Integrity check info	
- Message authentication code	
- RRC Message sequence number	
CN domain identity	<p>Checked to see if set to supported CN domain as specified in the IXIT statements. CS domain or PS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p>
Intra Domain NAS Node Selector	<p>R99</p> <p>GSM-MAP</p> <p>Local (P)TMSI</p> <p>If the IE "CN domain identity" is equal to "CS domain", this bit string is set to bits b14 through b23 of the TMSI.</p> <p>If the IE "CN domain identity" is equal to "PS domain", this bit string is set to bits b14 through b23 of the P-TMSI.</p> <p>The TMSI/ P-TMSI bits are numbered from b0 to b31, with bit b0 being the least significant.</p>
- CHOICE version	
- CHOICE CN type	
- CHOICE Routing basis	
- Routing parameter	
- 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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	Arbitrarily selects an unused integer between 0 to 3
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- <u>Message authentication code</u>	SS provides the value of this IE, from its internal counter.
- <u>RRC message sequence number</u>	1
<u>Measurement Identity</u>	Setup
<u>Measurement Command</u>	
<u>Measurement Reporting Mode</u>	Acknowledged mode RLC
- <u>Measurement Report Transfer Mode</u>	Periodical
- <u>Measurement Reporting/Event Trigger Reporting Mode</u>	
<u>Additional measurement list</u>	Not Present
<u>CHOICE Measurement type</u>	Intra-frequency measurement
- <u>Intra-frequency measurement</u>	
- <u>Intra-frequency cell info</u>	
- <u>New intra-frequency cell</u>	
- <u>Intra-frequency cell-id</u>	1
- <u>Cell info</u>	
- <u>Cell individual offset</u>	0dB
- <u>Reference time difference to cell</u>	Not Present
- <u>Read SFN number</u>	FALSE
- <u>CHOICE mode</u>	FDD
- <u>Primary CPICH info</u>	
- <u>Primary scrambling code</u>	Different from the Default setting in TS34.108 clause 6.1 (FDD)
- <u>Primary CPICH Tx power</u>	Not Present
- <u>TX Diversity indicator</u>	FALSE
- <u>Intra-frequency measurement quantity</u>	Not Present
- <u>Intra-frequency reporting quantity</u>	
- <u>Reporting quantities for active set cells</u>	
- <u>SFN-SFN observed time difference reporting indicator</u>	No report
- <u>Cell synchronisation information reporting indicator</u>	FALSE
- <u>Cell Identity reporting indicator</u>	TRUE
- <u>CPICH Ec/N0 reporting indicator</u>	FALSE
- <u>CPICH RSCP reporting indicator</u>	TRUE
- <u>Pathloss reporting indicator</u>	FALSE
- <u>Reporting quantities for monitored cells</u>	
- <u>SFN-SFN observed time difference reporting indicator</u>	No report
- <u>Cell synchronisation information reporting indicator</u>	FALSE
- <u>Cell Identity reporting indicator</u>	TRUE
- <u>CPICH Ec/N0 reporting indicator</u>	FALSE
- <u>CPICH RSCP reporting indicator</u>	TRUE
- <u>Pathloss reporting indicator</u>	FALSE
- <u>Reporting quantities for detected set cells</u>	Not Present
- <u>Reporting cell status</u>	
- <u>CHOICE reported cell</u>	Report cell within active set and/or monitored cells on used frequency
- <u>Maximum number of reported cells</u>	2
- <u>Measurement validity</u>	Not Present
- <u>CHOICE report criteria</u>	Periodic reporting criteria
- <u>Amount of reporting</u>	Infinity
- <u>Reporting interval</u>	64 sec
<u>DPCH Compressed mode status info</u>	Not Present

Contents of MEASUREMENT CONTROL FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>See the test content</u>

Contents of MEASUREMENT REPORT message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Measurement identity</u> <u>Measured Results</u>	<u>1</u>
<u>- Intra-frequency measured results</u>	
<u>- Cell measured results</u>	
<u>- Cell Identity</u>	<u>Not present</u>
<u>- SFN-SFN observed time difference</u>	<u>Checked that this IE is absent</u>
<u>- Cell synchronisation information</u>	<u>Checked that this IE is absent</u>
<u>- Primary CPICH info</u>	
<u>- Primary scrambling code</u>	<u>Different from the Default setting in TS34.108 clause 6.1 (FDD)</u>
<u>- CPICH Ec/No</u>	<u>Checked that this IE is absent</u>
<u>- CPICH RSCP</u>	<u>Checked that this IE is present</u>
<u>- Pathloss</u>	<u>Checked that this IE is absent</u>
<u>Measured results on RACH</u>	<u>Checked that this IE is absent</u>
<u>Additional measured results</u>	<u>Checked that this IE is absent</u>
<u>Event results</u>	<u>Checked that this IE is absent</u>

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u>	<u>CN identity</u> <u>Terminating Conversational Call</u> <u>CS domain</u>
<u>BCCH modification info</u>	<u>Set to the same octet string as in the IMSI stored in the USIM card</u> <u>Not Present</u>

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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Streaming Call CS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Interactive Call PS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Low Priority Signalling CS domain Set to the same octet string as in the IMSI stored in the TEST USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Low Priority Signalling PS domain Set to the same octet string as in the IMSI stored in the TEST USIM card Not Present

Contents of PAGING TYPE 2 message: AM (Speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> ____ - <u>message authentication code</u> ____ - <u>RRC message sequence number</u> <u>Paging cause</u> <u>CN domain identity</u> <u>Paging record type identifier</u>	<u>Arbitrarily selects an integer between 0 and 3</u> <u>The presence of this IE is dependent on IXIT statements</u> <u>in TS 34.123-2. If integrity protection is indicated to be</u> <u>active, this IE is present with the values of the sub IEs as</u> <u>stated below. Else, this IE and the sub-IEs are omitted.</u> <u>SS calculates the value of MAC-I for this message and</u> <u>writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter.</u> <u>Terminating Conversational Call</u> <u>CS domain</u> <u>Select the same type as in the IE "Initial UE Identity" in</u> <u>RRC CONNECTION REQUEST" message.</u>

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- message authentication code</u> <u>- RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>	<u>A1, A2, A3, A4, A5, A6</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>New U-RNTI</u>		<u>Not Present</u>
<u>New C-RNTI</u>	<u>A1, A2, A3, A4</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>A5, A6</u>	<u>'1010 1010 1010 1010'</u>
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>A1, A2, A3, A4</u>	<u>CELL_DCH</u>
<u>RRC State indicator</u>	<u>A5, A6</u>	<u>CELL_FACH</u>
<u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>URA identity</u> <u>Downlink counter synchronisation info</u> <u>Frequency info</u> <u>- UARFCN uplink (Nu)</u> <u>- UARFCN downlink (Nd)</u> <u>Maximum allowed UL TX power</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u> <u>Not Present</u> <u>Not Present</u> Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies 33dBm
<u>CHOICE channel requirement</u>	<u>A5, A6</u>	<u>Not Present</u>
<u>CHOICE channel requirement</u> <u>- Uplink DPCH power control info</u> <u>- DPCCCH power offset</u> <u>- PC Preamble</u> <u>- SRB delay</u> <u>- Power Control Algorithm</u> <u>- TPC step size</u> <u>- Scrambling code type</u> <u>- Scrambling code number</u> <u>- Number of DPDCH</u> <u>- spreading factor</u> <u>- TFCI existence</u> <u>- Number of FBI bit</u> <u>- Puncturing Limit</u>	<u>A1, A2, A3, A4</u>	<u>Uplink DPCH info</u> <u>-6dB</u> <u>1 frame</u> <u>7 frames</u> <u>Algorithm1</u> <u>1dB</u> <u>Long</u> <u>0 (0 to 16777215)</u> <u>Not Present(1)</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>CHOICE Mode</u> <u>- Downlink PDSCH information</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>FDD</u> <u>Not Present</u>
<u>Downlink information common for all radio links</u> <u>- Downlink DPCH info common for all RL</u> <u>- Timing indicator</u> <u>- CFN-targetSFN frame offset</u> <u>- Downlink DPCH power control information</u> <u>- DPC mode</u>	<u>A1, A2, A3</u>	<u>Maintain</u> <u>Not Present</u> <u>0 (single)</u>

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - CHOICE mode - Power offset $P_{Pilot-DPDCCH}$ - 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 		<p>FDD</p> <p>0</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Not Present</p> <p>None</p> <p>Not Present</p> <p>Not Present</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPDCCH}$ - 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 	A4	<p>Initialise</p> <p>Not Present</p> <p>0 (single)</p> <p>FDD</p> <p>0</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Not Present</p> <p>None</p> <p>Not Present</p> <p style="background-color: yellow;">Arbitrary set to value 0..306688 by step of 512</p>
<p>Downlink information common for all radio links</p>	A5, A6	Not Present
<p>Downlink information for each radio links</p> <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Power offset $P_{Pilot-DPDCCH}$ - Secondary CPICH info - 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 	A1, A2,A3,A4	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>FDD</p> <p>Primary CPICH may be used</p> <p style="background-color: yellow;">Set to value : Default DPCH Offset Value mod 38400</p> <p>0</p> <p>Not Present</p> <p>5</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>0</p> <p>No change</p> <p>0</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code 	A5	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - SCCPCH Information for FACH		6.1 (FDD) Not Present Not Present Not Present Not Present
- Downlink information for each radio link	A6	Not Present

<u>Condition</u>	<u>Explanation</u>
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

<u>Information Element</u>	<u>Value/remark</u>
Message Type RRC transaction identifier	Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info CHOICE mode COUNT-C activation time	Not checked FDD The UE shall include this IE if the following two conditions are fulfilled: (a) The PHYSICAL CHANNEL RECONFIGURATION message did not contain the IE "Ciphering activation time for DPCH" and (b) The PHYSICAL CHANNEL RECONFIGURATION message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent.
Radio bearer uplink ciphering activation time info Uplink counter synchronisation info	Not checked Not checked

Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.</u>
<u>Integrity check info</u>	<u>The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Checked to see if it meets test requirement</u>

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
Message Type	
RRC transaction identifier	<u>Arbitrarily selects an integer between 0 and 30</u>
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	SS provides the value of this IE, from its internal counter.
- RRC message sequence number	Not Present
Integrity protection mode info	Not Present
Ciphering mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
Ciphering mode command	Start/restart
Ciphering algorithm	Use one of the supported ciphering algorithms
Ciphering activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256
Radio bearer downlink ciphering activation time info	Not Present
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
<u>New DSCH-RNTI</u>	<u>Not Present</u>
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup list	Not Present
RAB information for setup list	
- RAB information for setup	
- RAB info	
- RAB identity	0000 0001B
- CN domain identity	CS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	

Information Element	Value/remark
<ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 	<ul style="list-style-type: none"> Not Present 1 DCH 1 Not Present Configured
<ul style="list-style-type: none"> - MAC logical channel priority 	<ul style="list-style-type: none"> 47
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication 	<ul style="list-style-type: none"> 1 DCH 6 Not Present Not Present 11 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 	<ul style="list-style-type: none"> Not Present 1 DCH 2 Not Present Configured
<ul style="list-style-type: none"> - MAC logical channel priority 	<ul style="list-style-type: none"> 47
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication 	<ul style="list-style-type: none"> 1 DCH 7 Not Present Not Present 12 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 	<ul style="list-style-type: none"> Not Present 1 DCH 3 Not Present Configured
<ul style="list-style-type: none"> - MAC logical channel priority 	<ul style="list-style-type: none"> 47
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<ul style="list-style-type: none"> 1 DCH 8 Not Present Not Present
<ul style="list-style-type: none"> - RB information to be affected list 	<ul style="list-style-type: none"> Not Present
<ul style="list-style-type: none"> - Downlink counter synchronisation info 	<ul style="list-style-type: none"> Not Present
<ul style="list-style-type: none"> - UL Transport channel information for all transport channels - PRACH TFCS - CHOICE mode - TFC subset 	<ul style="list-style-type: none"> Not Present FDD Not Present

Information Element	Value/remark
<ul style="list-style-type: none"> - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information 	<p>Normal</p> <p>Complete reconfiguration</p>
<ul style="list-style-type: none"> - CTFC - Power offset information - CHOICE Gain Factors 	<p>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Reference to TS34.108 clause 6.10.2.4 Parameter Set</p>
<ul style="list-style-type: none"> - Gain factor β_c - Gain factor β_d 	<p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors)</p> <p>15 (Not Present if the above is set to Computed Gain Factors)</p>
<ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 	<p>0 FDD Not Present Not Present</p>
<p>Deleted TrCH information list</p>	<p>Not Present</p>
<p>Added or Reconfigured TrCH information list</p>	<p>3 DCHs added, 1 DCH reconfigured</p>
<ul style="list-style-type: none"> - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS 	<p>DCH</p> <p>1</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set All</p>
<ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>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</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS 	<p>DCH</p> <p>2</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) All</p>
<ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>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</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS 	<p>DCH</p> <p>3</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present</p>

Information Element	Value/remark
<ul style="list-style-type: none"> - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) All</p> <p>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</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - 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 	<p><u>DCH</u> <u>5</u></p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> Not Present <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> All</p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u></p>
<p>CHOICE mode</p> <ul style="list-style-type: none"> - CPCH set ID - Added or Reconfigured TrCH information for DRAC list <p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters <p>Deleted TrCH information list</p> <p>Added or Reconfigured TrCH information list</p> <p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>FDD</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>FDD</p> <p>Same as UL</p> <p>Not Present</p> <p>3 DCHs</p> <p>DCH</p> <p>6</p> <p>Same as UL</p> <p>DCH</p> <p>1</p> <p>-2.0-6.3</p> <p>Not Present</p> <p>DCH</p> <p>7</p> <p>Same as UL</p> <p>DCH</p> <p>2</p> <p>Not Present</p> <p>Not Present</p> <p>DCH</p> <p>8</p> <p>Same as UL</p> <p>DCH</p> <p>3</p> <p>Not Present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters 	<p><u>DCH</u> <u>10</u> <u>Same as UL</u></p>

Information Element	Value/remark
- Uplink transport channel type	DCH
- UL TrCH identity	5
- DCH quality target	-2.0
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
Frequency info	Not Present
UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
- DPCCCH power offset	-6dB
- PC Preamble	1 frame
- SRB delay	7 frames
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	Not Present(1)
- spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P _{Pilot-DPDCH}	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

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

Information Element	Value/remark
Message Type	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	SS provides the value of this IE, from its internal counter.
- RRC message sequence number	Not Present
Integrity protection mode info	
Ciphering mode info	Not Present
Ciphering mode command	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 algorithm	Start/restart
Ciphering activation time for DPCH	Use one of the supported ciphering algorithms
Radio bearer downlink ciphering activation time info	$(256+CFN-(CFN \text{ MOD } 8 + 8)) \text{ MOD } 256$
Activation time	Not Present
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup	Not Present
RAB information for setup	
- RAB info	
- RAB identity	0000 0101B
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314UseT315
- RB information to setup	
- RB identity	20
- PDCP info	Not Present
- 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	
- SDU discard mode	No discard
- MAX_DAT	Max-DAT retransmissions
Timer_MRW	154
MaxMRW	400
- Transmission window size	4
- Timer_RST	1288
- Max_RST	500
- Polling info	4
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200

Information Element	Value/remark
- Timer_EPC	Not Present ²⁰⁰
- Missing PDU indicator	TRUE
- <u>Timer STATUS periodic</u>	Not Present
- RB mapping info	2 RBMuxOptions
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of uplink RLC logical channels	DCH
- Uplink transport channel type	1
- UL Transport channel identity	Not Present
- Logical channel identity	Configured
- CHOICE RLC size list	48
- MAC logical channel priority	1
- Downlink RLC logical channel info	DCH
- Number of downlink RLC logical channels	6
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	RACH
- Number of uplink RLC logical channels	Not Present
- Uplink transport channel type	7
- UL Transport channel identity	Explicit List
- Logical channel identity	Reference to TS34.108 clause 6 Parameter Set
- CHOICE RLC size list	68
- RLC size index	1
- MAC logical channel priority	FACH
- Downlink RLC logical channel info	Not Present
- Number of downlink RLC logical channels	Not Present
- Downlink transport channel type	7
- 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	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	
- CHOICE CTFC Size	
- 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	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)
- Gain factor β_c	11 (below 64 kbps)
- Gain factor β_d	9 (higher than 64 kbps)
- Reference TFC ID	(Not Present if the above is set to Computed Gain Factors)
- CHOICE mode	15
- Power offset P _{p-m}	(Not Present if the above is set to Computed Gain Factors)
Deleted TrCH information list	0
Added or Reconfigured TrCH information list	FDD
- Added or Reconfigured UL TrCH information	Not Present
- Uplink transport channel type	Not Present
- UL Transport channel identity	DCH
- TFS	1

Information Element	Value/remark
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size CHOICE mode <ul style="list-style-type: none"> - CPCH set ID - Added or Reconfigured TrCH information for DRAC list DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>FDD</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>FDD</p> <p>Explicit</p> <p>Normal</p> <p>Complete reconfiguration</p>
<ul style="list-style-type: none"> - CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 	<p>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4</p> <p>Reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Not present</p> <p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps)</p> <p>9 (higher than 64 kbps)</p> <p>(Not Present if the above is set to Computed Gain Factors)</p> <p>15</p> <p>(Not Present if the above is set to Computed Gain Factors)</p> <p>0</p> <p>FDD</p> <p>Not Present</p>
<p>Deleted TrCH information list</p> <p>Added or Reconfigured TrCH information list</p> <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info <p>Frequency info</p>	<p>Not Present</p> <p>DCH</p> <p>6</p> <p>Explicit</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>2.0-6.3</p> <p>Not Present</p> <p>Not present</p>

Information Element	Value/remark
UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	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	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset $P_{Pilot-DPDCH}$	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	Reference to clause 6.1 "Default settings (FDD)"
- Primary scrambling code	Not Present
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> - <u>message authentication code</u> - <u>RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u>	<u>A1, A4, A5, A6, A7, A8</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present
<u>Activation time</u>	<u>A1, A4, A7, A8</u>	(256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A5, A6</u>	Not Present
<u>New U-RNTI</u>		Not Present
<u>New C-RNTI</u>	<u>A1, A4, A7, A8</u>	Not Present
<u>New C-RNTI</u>	<u>A5, A6</u>	'1010 1010 1010 1010'
<u>New DSCH-RNTI</u>	<u>A1, A4, A5, A6, A7, A8</u>	Not Present
<u>RRC State indicator</u>	<u>A1, A4,A7,A8</u>	CELL_DCH
<u>RRC State indicator</u>	<u>A5, A6</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>URA identity</u> <u>Signalling RB information to setup</u>	<u>A1, A4, A5, A6,A7,A8</u>	Not Present Not Present Not Present
<u>RAB information for setup</u> - <u>RAB info</u> - <u>RAB identity</u> - <u>CN domain identity</u> - <u>NAS Synchronization Indicator</u> - <u>Re-establishment timer</u> - <u>RB information to setup</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>CHOICE RLC info type</u> - <u>CHOICE Uplink RLC mode</u> - <u>Transmission RLC discard</u> - <u>Segmentation indication</u> - <u>CHOICE Downlink RLC mode</u> - <u>Segmentation indication</u> - <u>RB mapping info</u> - <u>Information for each multiplexing option</u> - <u>RLC logical channel mapping indicator</u> - <u>Number of uplink RLC logical channels</u> - <u>Uplink transport channel type</u> - <u>UL Transport channel identity</u> - <u>Logical channel identity</u> - <u>CHOICE RLC size list</u> - <u>MAC logical channel priority</u> - <u>Downlink RLC logical channel info</u> - <u>Number of downlink RLC logical channels</u> - <u>Downlink transport channel type</u> - <u>DL DCH Transport channel identity</u>	<u>A1,A7</u>	0000 0001B CS domain Not Present useT315 10 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 1 Not Present Configured 1 1 DCH 6

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - DL DSCH Transport channel identity - Logical channel identity 		<ul style="list-style-type: none"> Not Present Not Present
<ul style="list-style-type: none"> RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels 	<ul style="list-style-type: none"> A8 	<ul style="list-style-type: none"> 0000 0001B CS domain Not Present useT315 10 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 1 Not Present Configured 7 1 DCH 6 Not Present Not Present 11 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 7 Not Present Not Present 12 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		DCH 3 Not Present Configured 7 1 DCH 8 Not Present Not Present
RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT	A4, A5, A6	(AM DTCH for PS domain) 0000 0101B PS domain Not Present useT315 20 FALSE Not present Absent Not present RLC info AM RLC No Discard 15
- Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic		128 500 4 200 200 Not Present 1 TRUE TRUE 99 Not Present
- CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic		AM RLC TRUE 128 200 Not Present TRUE Not Present
- RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		2 RBMuxOptions Not Present 1 DCH 1 Not Present Configured 8 1 DCH 6 Not Present Not Present

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 		<p>Not Present</p> <p>1</p> <p>RACH</p> <p>Not Present</p> <p>7</p> <p>Explicit list</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>8</p> <p>1</p> <p>FACH</p> <p>Not Present</p> <p>Not Present</p> <p>7</p>
<p>RB information to be affected</p> <p>Downlink counter synchronisation info</p>	<p>A1, A4, A5, A6,A7,A8</p> <p>A1, A4, A5, A6,A7,A8</p>	<p>Not Present</p> <p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 	<p>A1,A4,A7, A8</p>	<p>Not Present</p> <p>FDD</p> <p>Not Present</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set.</p> <p>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps)</p> <p>9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)</p> <p>15</p> <p>(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)</p> <p>0</p> <p>FDD</p> <p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS 	<p>A5, A6</p>	<p>Not Present</p>
<p>Deleted UL TrCH information</p> <p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List 	<p>A1, A4, A5, A6,A7,A8</p> <p>A1</p>	<p>Not Present</p> <p>DCH</p> <p>1</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - Transmission Time Interval - Number of Transport blocks 		<p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p>
<ul style="list-style-type: none"> - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Type of channel coding 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Coding Rate 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Rate matching attribute 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - CRC size 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size 	<u>A4,A7</u>	<p>2 TrCHs(DCH for DCCH and DCH for DTCH)</p> <p>DCH</p> <p>5</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p>
<ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Type of channel coding 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Coding Rate 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Rate matching attribute 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - CRC size 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size 		<p>DCH</p> <p>1</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p>
<ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Type of channel coding 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Coding Rate 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Rate matching attribute 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - CRC size 		<p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS 	<u>A8</u>	<p>4 TrCHs(DCH for DCCH and 3DCHs for DTCH)</p> <p>DCH</p> <p>5</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 		<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>DCH</p> <p>1</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS 		<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>DCH</p> <p>2</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type 		<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>DCH</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - <u>UL Transport channel identity</u> - <u>TFS</u> - <u>CHOICE Transport channel type</u> - <u>Dynamic Transport format information</u> - <u>RLC Size</u> - <u>Number of TBs and TTI List</u> - <u>Transmission Time Interval</u> - <u>Number of Transport blocks</u> - <u>CHOICE Logical Channel list</u> - <u>Semi-static Transport Format information</u> - <u>Transmission time interval</u> - <u>Type of channel coding</u> - <u>Coding Rate</u> - <u>Rate matching attribute</u> - <u>CRC size</u> 		<p>3</p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> (This IE is repeated for TFI number.)</p> <p><u>Not Present</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p>
<p><u>CHOICE mode</u></p> <ul style="list-style-type: none"> - <u>CPCH set ID</u> - <u>Added or Reconfigured TrCH information for DRAC list</u> 		<p><u>FDD</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p>
<p><u>Added or Reconfigured UL TrCH information</u></p>	<u>A5, A6</u>	<u>Not Present</u>
<p><u>CHOICE mode</u></p> <ul style="list-style-type: none"> - <u>CPCH set ID</u> - <u>Added or Reconfigured TrCH information for DRAC list</u> 	<u>A1, A4, A5, A6,A7,A8</u>	<p><u>FDD</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p>
<p><u>DL Transport channel information common for all transport channel</u></p> <ul style="list-style-type: none"> - <u>SCCPCH TFCS</u> - <u>CHOICE mode</u> - <u>CHOICE DL parameters</u> 	<u>A1,A7,A8</u>	<p><u>Not Present</u></p> <p><u>FDD</u></p> <p><u>SameasUL</u></p>
<p><u>DL Transport channel information common for all transport channel</u></p> <ul style="list-style-type: none"> - <u>SCCPCH TFCS</u> - <u>CHOICE mode</u> - <u>CHOICE DL parameters</u> - <u>DL DCH TFCS</u> - <u>CHOICE TFCI Signalling</u> - <u>TFCI Field 1 Information</u> - <u>CHOICE TFCS representation</u> - <u>TFCS complete reconfigure</u> - <u>CHOICE CTFC Size</u> - <u>CTFC information</u> - <u>CTFC</u> - <u>Power offset information</u> 	<u>A4</u>	<p><u>Not Present</u></p> <p><u>FDD</u></p> <p><u>Explicit</u></p> <p><u>Normal</u></p> <p><u>Complete reconfiguration</u></p> <p style="background-color: magenta;"><u>Number of bits used must be enough to cover all combinations of CTFC from clause 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 Reference to TS34.108 clause 6.10.2.4 Parameter Set</u></p> <p><u>Not Present</u></p>
<p><u>DL Transport channel information common for all transport channel</u></p> <ul style="list-style-type: none"> - <u>SCCPCH TFCS</u> - <u>CHOICE mode</u> - <u>CHOICE DL parameters</u> 	<u>A5, A6</u>	<u>Not Present</u>
<p><u>Deleted DL TrCH information</u></p> <p><u>Added or Reconfigured DL TrCH information</u></p> <ul style="list-style-type: none"> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> 	<u>A1, A4, A5, A6,A7,A8 A1</u>	<p><u>Not Present</u></p> <p><u>DCH</u></p> <p><u>6</u></p> <p><u>Same as UL</u></p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 		<p>DCH 1</p> <p>-2.0</p> <p>Not Present</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size <ul style="list-style-type: none"> - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval <ul style="list-style-type: none"> - Type of channel coding <ul style="list-style-type: none"> - Coding Rate <ul style="list-style-type: none"> - Rate matching attribute <ul style="list-style-type: none"> - CRC size <ul style="list-style-type: none"> - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>A4,A7</p>	<p>2 TrCHs(DCH for DCCH and DCH for DTCH)</p> <p>DCH 10 Same as UL DCH 5</p> <p>Not Present Not Present</p> <p>DCH 6 Explicit</p> <p>Dedicated transport channel</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>-2.0</p> <p>Not Present</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size <ul style="list-style-type: none"> - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval 	<p>A8</p>	<p>4 TrCHs(DCH for DCCH and 3DCHs for DTCH)</p> <p>DCH 10 Same as UL DCH 5</p> <p>Not Present Not Present</p> <p>DCH 6 Explicit</p> <p>Dedicated transport channel</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>

Information Element	Condition	Value/remark
- 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		Reference to TS34.108 clause 6.10 Parameter Set
- BLER Quality value		Reference to TS34.108 clause 6.10 Parameter Set
- Transparent mode signalling info		Reference to TS34.108 clause 6.10 Parameter Set
- Downlink transport channel type		Reference to TS34.108 clause 6.10 Parameter Set
- DL Transport channel identity		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE DL parameters		Reference to TS34.108 clause 6.10 Parameter Set
- TFS		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Transport channel type		Reference to TS34.108 clause 6.10 Parameter Set
- Dynamic transport format information		Reference to TS34.108 clause 6.10 Parameter Set
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		Reference to TS34.108 clause 6.10 Parameter Set
- Dynamic transport format information		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		Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target		Reference to TS34.108 clause 6.10 Parameter Set
- BLER Quality value		Reference to TS34.108 clause 6.10 Parameter Set
- Transparent mode signalling info		Reference to TS34.108 clause 6.10 Parameter Set
- Downlink transport channel type		Reference to TS34.108 clause 6.10 Parameter Set
- DL Transport channel identity		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE DL parameters		Reference to TS34.108 clause 6.10 Parameter Set
- TFS		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Transport channel type		Reference to TS34.108 clause 6.10 Parameter Set
- Dynamic transport format information		Reference to TS34.108 clause 6.10 Parameter Set
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		Reference to TS34.108 clause 6.10 Parameter Set
- Dynamic transport format information		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		Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target		Reference to TS34.108 clause 6.10 Parameter Set
- BLER Quality value		Reference to TS34.108 clause 6.10 Parameter Set
- Transparent mode signalling info		Reference to TS34.108 clause 6.10 Parameter Set
Added or Reconfigured DL TrCH information	A5, A6	Not Present
Frequency info	A1, A4, A5,	

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- UARFCN uplink (Nu) - UARFCN downlink (Nd)	A6	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	A1, A4, A7, A8	33dBm
Maximum allowed UL TX power	A5, A6	Not Present
CHOICE channel requirement - Uplink DPCH power control info - DPCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	A1, A4, A7, A8	Uplink DPCH info -6dB 1 frame 7 frames Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
CHOICE channel requirement	A5,A6	Not Present
CHOICE Mode - Downlink PDSCH information	A1, A4, A5, A6,A7,A8	FDD Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value	A1	Maintain Not Present 0 (single) FDD 0 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 FDD Not Present None Not Present Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF	A4,A7,A8	Maintain Not Present 0 (single) FDD 0 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

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value 		<ul style="list-style-type: none"> Set FDD Not Present None Not Present Arbitrary set to value 0..306688 by step of 512
<p><u>Downlink information common for all radio links</u></p>	<p>A5,A6</p>	<p>Not Present</p>
<p><u>Downlink information for each radio link list</u></p> <ul style="list-style-type: none"> - <u>Downlink information for each radio link</u> <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - 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 	<p>A1</p>	<ul style="list-style-type: none"> FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used 0 chips Not Present 1 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<p><u>Downlink information for each radio link list</u></p> <ul style="list-style-type: none"> - <u>Downlink information for each radio link</u> <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - 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 	<p>A4,A7,A8</p>	<ul style="list-style-type: none"> FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used Set to value : Default DPCH Offset Value mod 38400 Not Present 1 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<p><u>Downlink information for each radio link list</u></p> <ul style="list-style-type: none"> - <u>Downlink information for each radio link</u> <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - SCCPCH information for FACH 	<p>A5</p>	<ul style="list-style-type: none"> FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Not present Not Present
<p><u>Downlink information for each radio link list</u></p> <ul style="list-style-type: none"> - <u>Downlink information for each radio link</u> <ul style="list-style-type: none"> - Choice mode 	<p>A6</p>	<ul style="list-style-type: none"> FDD

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- Primary CPICH info - Primary scrambling code		Different from the Default setting in TS34.108 clause 6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not present
- SCCPCH information for FACH		Not Present

<u>Condition</u>	<u>Explanation</u>
A1	This IE need for "Non speech to CELL_DCH from CELL_DCH in CS"
A2 is defined in TS34.108 clause 9 in message "RADIO BEARER SETUP message: AM or UM (Speech in CS)".	This IE need for "Speech to CELL_DCH from CELL_DCH in CS"
A3 is defined in TS34.108 clause 9 in message "RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS)".	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"
A7	This IE need for "Non speech to CELL_DCH from CELL_FACH in CS"
A8	This IE need for "Speech to CELL_DCH from CELL_FACH in CS"

Contents of RADIO BEARER SETUP COMPLETE message: AM

Message Type	Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub-IEs as stated below. Else, this IE and the sub-IEs shall be absent.
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
CHOICE mode	FDD
START	Not checked
COUNT-C activation time	<u>The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER SETUP message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER SETUP message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. 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.</u> Else, this IE is absent.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER SETUP message, this IE must be absent. Else, SS checks this IE for the presence of activation times of all ciphered uplink RLC-UM and RLC-AM RBs.
Uplink counter synchronisation info	Not checked

Contents of RADIO BEARER SETUP FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER SETUP message.</u>
<u>Integrity check info</u>	<u>The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Checked to see if it meets test requirement</u>
<u>Radio bearers for which reconfiguration would have succeeded</u>	<u>Not checked</u>

Contents of RADIO BEARER RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- message authentication code</u> <u>- RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>	<u>A1,A2,A3,A4,A5,A6</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A1,A2,A3,A4</u>	<u>Not Present</u>
<u>New U-RNTI</u>		<u>Not Present</u>
<u>New C-RNTI</u>	<u>A1, A2, A3, A4,</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>A5, A6</u>	<u>'1010 1010 1010 1010'</u>
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>A1, A2, A3, A4</u>	<u>CELL_DCH</u>
<u>RRC State indicator</u>	<u>A5, A6</u>	<u>CELL_FACH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>A1,A2,A3,A4,A5,A6</u>	<u>Not Present</u>
<u>CN information info</u> <u>URA identity</u> <u>RAB information to reconfigure list</u>		Not Present Not Present Not Present
<u>RB information to reconfigure list</u> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> <u>- RB stop/continue</u> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> <u>- RB stop/continue</u> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> <u>- RB stop/continue</u> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- PDCP SN info</u> <u>- RLC info</u> <u>- RB mapping info</u> <u>- RB stop/continue</u> <u>- RB information to reconfigure</u> <u>- RB identity</u>	<u>A1</u>	TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) 1 Not Present Not Present Not Present Not Present Not Present (AM DCCH for RRC) 2 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS DT High priority) 3 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS DT Low priority) 4 Not Present Not Present Not Present Not Present Not Present (TM DTCH) 10

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue 		<p>Not Present Not Present Not Present Not Present Not Present</p>
<p><u>RB information to reconfigure list</u></p> <ul style="list-style-type: none"> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> 	<p><u>A2</u></p>	<p>TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) 1 Not Present Not Present Not Present Not Present Not Present (AM DCCH for RRC) 2 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT High priority) 3 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT Low priority) 4 Not Present Not Present Not Present Not Present Not Present (TM DTCH) 10 Not Present Not Present Not Present Not Present Not Present (TM DTCH) 11 Not Present Not Present Not Present Not Present Not Present (TM DTCH) (This IE is needed for 12.2 kbps and 10.2 kbps) 12 Not Present Not Present Not Present Not Present Not Present</p>
<p><u>RB information to reconfigure list</u></p> <ul style="list-style-type: none"> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> 	<p><u>A3,A4,A5,A6</u></p>	<p>TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". (UM DCCH for RRC) 1 Not Present Not Present Not Present</p>

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue 		<p>Not Present</p> <p>Not Present</p> <p>(AM DCCH for RRC)</p> <p>2</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(AM DCCH for NAS_DT High priority)</p> <p>3</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(AM DCCH for NAS_DT Low priority)</p> <p>4</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(AM DTCH)</p> <p>20</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<p>RB information to be affected</p>	<p>A1, A2, A3,A4,A5, A6</p>	<p>Not Present</p>
<p>UL Transport channel information for all transport channels</p>	<p>A1, A2, A5,A6</p>	<p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size <p>- CTFC information</p> <p>- CTFC</p> <ul style="list-style-type: none"> - Power offset information - CHOICE Gain Factors <p>- Gain factor β_c</p> <p>- Gain factor β_d</p> <ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode 	<p>A3, A4</p>	<p>Not Present</p> <p>FDD</p> <p>Not Present</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover 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</p> <p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps)</p> <p>9 (higher than 64 kbps)</p> <p>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)</p> <p>15</p> <p>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)</p> <p>0</p> <p>FDD</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- Power offset P _{p-m}		Not Present
<u>Deleted UL TrCH information</u>	<u>A1, A2, A3, A4, A5, A6</u>	Not Present
<u>Added or Reconfigured UL TrCH information</u>	<u>A1, A2, A5, A6, A4</u>	Not Present
<u>Added or Reconfigured UL TrCH information</u>		2 TrCHs(DCH for DCCH and DCH for DTCH) DCH
- Uplink transport channel type		5
- UL Transport channel identity		
- TFS		<u>Dedicated transport channels</u>
- CHOICE Transport channel type		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Dynamic Transport format information		<u>(This IE is repeated for TFI number.)</u>
- RLC Size		Not Present
- Number of TBs and TTI List		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Transmission Time Interval		All
- Number of Transport blocks		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- CHOICE Logical Channel list		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Semi-static Transport Format information		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Transmission time interval		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Type of channel coding		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Coding Rate		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Rate matching attribute		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- CRC size		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		<u>Dedicated transport channels</u>
- CHOICE Transport channel type		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Dynamic Transport format information		<u>(This IE is repeated for TFI number.)</u>
- RLC Size		Not Present
- Number of TBs and TTI List		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Transmission Time Interval		All
- Number of Transport blocks		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- CHOICE Logical Channel list		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Semi-static Transport Format information		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Transmission time interval		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Type of channel coding		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Coding Rate		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Rate matching attribute		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- CRC size		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>Added or Reconfigured UL TrCH information</u>	<u>A3</u>	(DCH for DTCH) DCH
- Uplink transport channel type		1
- UL Transport channel identity		
- TFS		<u>Dedicated transport channels</u>
- CHOICE Transport channel type		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Dynamic Transport format information		<u>(This IE is repeated for TFI number.)</u>
- RLC Size		Not Present
- Number of TBs and TTI List		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Transmission Time Interval		All
- Number of Transport blocks		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- CHOICE Logical Channel list		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Semi-static Transport Format information		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Transmission time interval		<u>Reference to TS34.108 clause 6.10 Parameter Set</u>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - <u>Type of channel coding</u> - <u>Coding Rate</u> - <u>Rate matching attribute</u> - <u>CRC size</u> 		<u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u>
<u>CHOICE mode</u> <ul style="list-style-type: none"> - <u>CPCH set ID</u> - <u>Added or Reconfigured TrCH information for DRAC list</u> 	<u>A1,A2,A3,</u> <u>A4,A5,A6</u>	<u>FDD</u> <u>Not Present</u> <u>Not Present</u>
<u>DL Transport channel information common for all transport channel</u>	<u>A1, A2, A5,</u> <u>A6</u>	<u>Not Present</u>
<u>DL Transport channel information common for all transport channel</u> <ul style="list-style-type: none"> - <u>SCCPCH TFCS</u> - <u>CHOICE mode</u> - <u>CHOICE DL parameters</u> - <u>DL DCH TFCS</u> - <u>CHOICE TFCI Signalling</u> - <u>TFCI Field 1 Information</u> - <u>CHOICE TFCS representation</u> - <u>TFCS complete reconfigure</u> - <u>CHOICE CTFC Size</u> <ul style="list-style-type: none"> - <u>CTFC information</u> <ul style="list-style-type: none"> - <u>CTFC</u> <ul style="list-style-type: none"> - <u>Power offset information</u> 	<u>A3,A4</u>	<u>Not Present</u> <u>FDD</u> <u>Explicit</u> <u>Normal</u> <u>Complete reconfiguration</u> <u>Number of bits used must be enough to cover all combinations of CTFC from clause 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 Reference to TS34.108 clause 6.10.2.4 Parameter Set</u> <u>Not Present</u>
<u>Deleted DL TrCH information</u>	<u>A1, A2, A3,</u> <u>A4, A5,A6</u>	<u>Not Present</u>
<u>Added or Reconfigured DL TrCH information</u>	<u>A1, A2, A5,</u> <u>A6</u>	<u>Not Present</u>
<u>Added or Reconfigured DL TrCH information</u> <ul style="list-style-type: none"> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>Uplink transport channel type</u> - <u>UL TrCH identity</u> - <u>DCH quality target</u> - <u>BLER Quality value</u> - <u>Transparent mode signalling info</u> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>TFS</u> - <u>CHOICE Transport channel type</u> - <u>Dynamic transport format information</u> - <u>RLC Size</u> <ul style="list-style-type: none"> - <u>Number of TBs and TTI List</u> - <u>Dynamic transport format information</u> - <u>Transmission Time Interval</u> - <u>Number of Transport blocks</u> <ul style="list-style-type: none"> - <u>Semi-static Transport Format information</u> - <u>Transmission time interval</u> <ul style="list-style-type: none"> - <u>Type of channel coding</u> - <u>Coding Rate</u> 	<u>A4</u>	<u>2 TrCHs(DCH for DCCH and DCH for DTCH)</u> <u>DCH</u> <u>10</u> <u>Same as UL</u> <u>DCH</u> <u>5</u> <u>Not Present</u> <u>Not Present</u> <u>DCH</u> <u>6</u> <u>Explicit</u> <u>Dedicated transport channel</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info 		Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set -2.0 Not Present
<u>Added or Reconfigured DL TrCH information</u> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - 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 - 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 - Transparent mode signalling info 	A3	DCH 6 Explicit Dedicated transport channel Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set -2.0 Not Present
<u>Frequency info</u> <ul style="list-style-type: none"> - UARFCN uplink (Nu) - UARFCN downlink (Nd) 	A1,A2,A3, A4,A5,A6	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
<u>Maximum allowed UL TX power</u>	A1,A2,A3, A4,A5,A6	33dBm
<u>CHOICE channel requirement</u> <ul style="list-style-type: none"> -Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit 	A1, A2, A3, A4	<u>Uplink DPCH info</u> -6dB 1 frame 7 frames Algorithm 1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
<u>CHOICE channel requirement</u>	A5, A6	Not Present
<u>CHOICE Mode</u>	A1,A2,A3, A4,A5,A6	FDD
- Downlink PDSCH information		Not Present
<u>Downlink information common for all radio links</u>	A5, A6	Not Present
<u>Downlink information common for all radio links</u>	A1, A2, A3	

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - 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 		<p>Maintain Not Present</p> <p>0 (single) FDD 0 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 Not Present None Not Present Not Present</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - 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 	A4	<p>Initialise Not Present</p> <p>0 (single) FDD 0 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 Not Present None Not Present Present Arbitrary set to value 0..306688 by step of 512</p>
<p>Downlink information per radio link list</p> <ul style="list-style-type: none"> - 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 FACH 	A1, A2, A3	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present</p> <p>Primary CPICH may be used 0 chips Not Present</p> <p>2 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present</p>
<p>Downlink information per radio link list</p>	A4	

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> -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 FACH 		<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Primary CPICH may be used</p> <p>Set to value : Default DPCH Offset Value mod 38400</p> <p>Not Present</p> <p>2</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>0</p> <p>No change</p> <p>0</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - 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 - SCCPCH Information for FACH 	A5	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Not present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - 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 - Secondary CCPCH info 	A6	<p>FDD</p> <p>Different from the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>

<u>Condition</u>	<u>Explanation</u>
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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.</u>
<u>Integrity check info</u>	<u>The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Checked to see if it meets test requirement</u>
<u>Radio bearers for which reconfiguration would have succeeded List</u>	<u>Not checked</u>

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION COMPLETE message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>CHOICE mode</u>	<u>FDD</u>
<u>COUNT-C activation time</u>	<u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of RADIO BEARER RELEASE message: AM or UM

Information Element		Value/remark
<u>Message Type</u>	<u>A1, A2, A3, A4, A5, A6, A7, A8</u>	
<u>RRC transaction identifier</u> <u>Integrity check info</u>		Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
_____ - message authentication code		SS calculates the value of MAC-I for this message and writes to this IE.
_____ - RRC message sequence number		SS provides the value of this IE, from its internal counter.
<u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>		Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A1, A2, A3, A4, A7, A8, A5, A6</u>	Not Present
<u>New U-RNTI</u>		Not Present
<u>New C-RNTI</u>	<u>A1,A2,A3, A4</u>	Not Present
<u>New C-RNTI</u>	<u>A5, A6, A7, A8</u>	'1010 1010 1010 1010'
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6, A7, A8</u>	Not Present
<u>RRC State indicator</u>	<u>A1,A2, A3, A4</u>	CELL_DCH
<u>RRC State indicator</u>	<u>A5, A6, A7, A8</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u>	<u>A1,A2,A3, A4,A5,A6, A7, A8</u>	Not Present
<u>CN information info</u> <u>Signalling Connection release indication</u> <u>URA identity</u> <u>RAB information to reconfigure list</u>		Not Present Not Present Not Present Not Present
<u>RB information to release</u>	<u>A1,A2, A7, A8</u>	
_____ - RB identity		10
<u>RB information to release</u>	<u>A2, A8</u>	
_____ - RB identity		11
<u>RB information to release</u>	<u>A2, A8</u>	
_____ - RB identity		12
<u>RB information to release</u>	<u>A3, A4, A5, A6</u>	
_____ - RB identity		20
<u>RB information to be affected</u>	<u>A1,A2, A3,A4,A5, A6, A7, A8</u>	Not Present
<u>Downlink counter synchronisation info</u>	<u>A1,A2,A3, A4,A5,A6, A7, A8</u>	Not Present
<u>UL Transport channel information for all transport channels</u>	<u>A1, A2, A3, A4, A5, A6</u>	TFCS reconfigured to fit the new transport channel configuration.
<u>UL Transport channel information for all transport channels</u>	<u>A5, A6</u>	Not Present
<u>Deleted UL TrCH Information</u>	<u>A1,A2, A3, A7, A8, A4</u>	
_____ - Uplink transport channel type		DCH
_____ - Transport channel identity		1
<u>Deleted UL TrCH Information</u>	<u>A2, A8</u>	
_____ - Uplink transport channel type		DCH
_____ - Transport channel identity		2

<u>Information Element</u>		<u>Value/remark</u>
<u>Deleted UL TrCH Information</u> - Uplink transport channel type - Transport channel identity	A2, A8	DCH 3
<u>Deleted UL TrCH Information</u>	A4, A5,A6	Not Present
<u>Added or Reconfigured UL TrCH information</u>	A4, A6, A7, A8	Not Present
<u>Added or Reconfigured UL TrCH information</u> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size	A1, A2, A3, A5	TrCHs(DCH for DCCH) DCH 5 Dedicated transport channels According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) (This IE is repeated for TFI number.) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) All According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
<u>DL Transport channel information for all transport channels</u>	A1, A2, A3, A4, A5, A6, A7, A8	TFCS reconfigured to fit the new transport channel configuration.
<u>DL Transport channel information for all transport channels</u>	A5, A6	Not Present
<u>Deleted DL TrCH Information</u> - Downlink transport channel type - Transport channel identity	A1, A2, A3, A7, A8,A4	DCH 6
<u>Deleted DL TrCH Information</u> - Downlink transport channel type - Transport channel identity	A2, A8	DCH 7
<u>Deleted DL TrCH Information</u> - Downlink transport channel type - Transport channel identity	A2, A8	DCH 8
<u>Deleted DL TrCH Information</u>	A4, A5,A6	Not Present
<u>Added or Reconfigured DL TrCH information</u>	A4, A6, A7, A8	Not Present
<u>Added or Reconfigured DL TrCH information</u> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info	A1, A2, A3, A5	1 TrCHs(DCH for DCCH) DCH 10 Same as UL DCH 5 Not Present Not Present
<u>Frequency info</u> - UARFCN uplink (Nu) - UARFCN downlink (Nd) Maximum allowed UL TX power	A1,A2,A3, A4,A5,A6, A7, A8	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies 33dBm

Information Element		Value/remark
<u>CHOICE channel requirement</u>	A5, A6, A7, A8	Not Present
<u>CHOICE channel requirement</u> - <u>Uplink DPCH power control info</u> - <u>DPCCH power offset</u> - <u>PC Preamble</u> - <u>SRB delay</u> - <u>Power Control Algorithm</u> - <u>TPC step size</u> - <u>Scrambling code type</u> - <u>Scrambling code number</u> - <u>Number of DPDCH</u> - <u>spreading factor</u> - <u>TFCI existence</u> - <u>Number of FBI bit</u> - <u>Puncturing Limit</u>	A1,A2,A3, A4	<u>Uplink DPCH info</u> -6dB 1 frame 7 frames Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>CHOICE Mode</u>	A1,A2,A3, A4,A5,A6, A7, A8	FDD
- <u>Downlink PDSCH information</u>		Not Present
<u>Downlink information common for all radio links</u>	A5, A6, A7, A8	Not Present
<u>Downlink information common for all radio links</u> - <u>Downlink DPCH info common for all RL</u> - <u>Timing indicator</u> - <u>CFN-targetSFN frame offset</u> - <u>Downlink DPCH power control information</u> - <u>DPC mode</u> - <u>CHOICE mode</u> - <u>Power offset P_{Pilot-DPDCH}</u> - <u>DL rate matching restriction information</u> - <u>Spreading factor</u> - <u>Fixed or Flexible Position</u> - <u>TFCI existence</u> - <u>CHOICE SF</u> - <u>DPCH compressed mode info</u> - <u>TX Diversity mode</u> - <u>SSDT information</u> - <u>Default DPCH Offset Value</u>	A1,A2, A3	Maintain Not Present 0 (single) FDD 0 Not Present <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> Not Present None Not Present Not Present
<u>Downlink information common for all radio links</u> - <u>Downlink DPCH info common for all RL</u> - <u>Timing indicator</u> - <u>CFN-targetSFN frame offset</u> - <u>Downlink DPCH power control information</u> - <u>DPC mode</u> - <u>CHOICE mode</u> - <u>Power offset P_{Pilot-DPDCH}</u> - <u>DL rate matching restriction information</u> - <u>Spreading factor</u> - <u>Fixed or Flexible Position</u> - <u>TFCI existence</u> - <u>CHOICE SF</u> - <u>DPCH compressed mode info</u> - <u>TX Diversity mode</u>	A4	Maintain Not Present 0 (single) FDD 0 Not Present <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> Not Present None

Information Element		Value/remark
<ul style="list-style-type: none"> - SSDT information - Default DPCH Offset Value 		<p>Not Present Arbitrary set to value 0..306688 by step of 512</p>
<p>Downlink information for each radio link list</p> <ul style="list-style-type: none"> -Downlink information for each radio link <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - 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 	<p>A1,A2,A3</p>	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Primary CPICH may be used</p> <p>0 chips</p> <p>Not Present</p> <p>3</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>0</p> <p>No change</p> <p>0</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<p>Downlink information for each radio link list</p> <ul style="list-style-type: none"> -Downlink information for each radio link <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - 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 	<p>A4</p>	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Primary CPICH may be used</p> <p>Set to value : Default DPCH Offset Value mod 38400</p> <p>Not Present</p> <p>3</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>0</p> <p>No change</p> <p>0</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - SCCPCH information for FACH 	<p>A5, A7, A8</p>	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Not present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link 	<p>A6</p>	<p>Not Present</p>

<u>Condition</u>	<u>Explanation</u>
<u>A1</u>	<u>This IE need for "Non speech in CS"</u>
<u>A2</u>	<u>This IE need for "Speech in CS"</u>
<u>A3</u>	<u>This IE need for "Packet to CELL_DCH from CELL_DCH in PS"</u>
<u>A4</u>	<u>This IE need for "Packet to CELL_DCH from CELL_FACH in PS"</u>
<u>A5</u>	<u>This IE need for "Packet to CELL_FACH from CELL_DCH in PS"</u>
<u>A6</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>
<u>A7</u>	<u>This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"</u>
<u>A8</u>	<u>This IE need for "Speech to CELL_FACH from CELL_DCH in CS"</u>

Contents of RADIO BEARER RELEASE COMPLETE message: AM

Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info CHOICE mode COUNT-C activation time Radio bearer uplink ciphering activation time info Uplink counter synchronisation info	Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked. FDD The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER RELEASE message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER RELEASE message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. 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. 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. Not checked
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Contents of RADIO BEARER RELEASE FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Failure cause</u> <u>Radio bearers for which reconfiguration would have succeeded</u>	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message. The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Checked to see if it meets test requirement 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 IMSI (GSM-MAP)	Set to the UE's IMSI (GSM-MAP) or TMSI and LAI.
Establishment cause	To be checked against requirement if specified
Protocol error indicator	FALSE
Measured results on RACH	To be checked against requirement if specified Not checked

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-RNTI	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B
- SRNC identity	0000 0000 0000 0000 0001B
- S-RNTI	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 30
Integrity check info	The presence of this IE depends on 2 factors: (a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. (b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
N308	2 (for CELL_DCH state). Not Present (for UE in other connected mode states).
Release cause	Normal event
Rplmn information	Not Present

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

Information Element	Semantics description
Message Type RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.
Integrity check info - Message authentication code - RRC Message sequence number	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. Checked to see if it's identical to the value of XMAC-I calculated by the SS 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 30
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not present0000-0000-0000-0001B
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
- UE radio access FDD capability update requirement	TRUE
- UE radio access TDD capability update requirement	FALSE
- System specific capability update requirement list	Gsm
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present4
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- SDU discard mode	Timer based no explicit
- Timer discard	50
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present2
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discardMax-DAT-retransmissions
- MAX_DAT	415

Information Element	Value/remark
Timer_MRW	400
MaxMRW	4
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configure
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 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	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	Max-DAT retransmissions
Timer_MRW	415
MaxMRW	400
MaxMRW	4
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	

Information Element	Value/remark
- 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 present200
- Missing PDU indicator	TRUE
- Timer STATUS periodic	Not Present
- RB mapping info	2 RBMuxOptions
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of RLC logical channels	DCH
- Uplink transport channel type	5
- UL Transport channel identity	3
- Logical channel identity	Configured
- CHOICE RLC size list	3
- MAC logical channel priority	1
- Downlink RLC logical channel info	DCH
- Number of RLC logical channels	10
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	3
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	4
- Downlink RLC logical channel info	1
- Number of RLC logical channels	FACH
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	3
- Logical channel identity	(AM DCCH for NAS_DT Low priority)
Signalling RB information to setup	
- RB identity	Not present4
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discardMax-DAT-retransmissions
- MAX_DAT	415
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE

Information Element	Value/remark
- 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	200
- Timer_STATUS_periodic	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	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Nor 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 signalling radio bearer) and reference to TS34.108 clause 6-10
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6-10 Parameter Set
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Computed Signalled Gain Factors)
- Gain factor βc	11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors)
- Gain factor βd	15 (Not Present if the above is set to Computed Gain Factors)

Information Element	Value/remark
<ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - Power offset Pp-m 	0 FDD Not Present
Added or Reconfigured UL TrCH information <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size 	DCH 5 Dedicated transport channels
<ul style="list-style-type: none"> - Number of TBs and TTI lists - Transmission Time Interval 	(This IE is repeated for TFI number) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Number of Transport blocks 	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval 	All According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Type of channel coding 	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Coding Rate 	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Rate matching attribute 	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
<ul style="list-style-type: none"> - CRC size 	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters 	Not Present FDD Same as UL
Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH Identity - DCH quality target - BLER Quality value 	DCH 10 Same as UL DCH 5
Transparent mode signalling info	Not Present
Frequency info	Not Present
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	Not Present 33dBm
Uplink DPCH info <ul style="list-style-type: none"> - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - Spreading factor 	-6dB 1 frame 7 frames Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set

Information Element	Value/remark
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	Initialise
- Timing Indication	Not Present 0
- CFN-targetSFN frame offset	FDD
- CHOICE mode	
- Downlink DPCH power control information	
- DPC mode	0 (single)
- Power offset P _{Pilot-DPCH}	0
- DL rate matching restriction information	Not Present
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Specifies number of pilot bits. According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 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 0..306688 by step of 512 0
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value : Default DPCH Offset Value mod 38400 0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	Not present 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 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)

Information Element	Value/remark
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC state indicator	CELL_FACH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not present
- SDU discard mode	Not present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	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 Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of 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	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

Information Element	Value/remark
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer status prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	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 Element	Value/remark
<ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL DCH Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index 	<ul style="list-style-type: none"> 2 RBMuxOptions Not Present 1 DCH 5 3 Configured 3 1 DCH 10 Not Present 3 Not Present 1 RACH Not Present 3 Explicit list According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<ul style="list-style-type: none"> 4 1 FACH Not Present Not Present 3
<p>Signalling RB information to setup</p> <ul style="list-style-type: none"> - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT 	<ul style="list-style-type: none"> (AM DCCH for NAS DT Low priority) Not Present RLC info AM RLC No Discard 15
<ul style="list-style-type: none"> - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll 	<ul style="list-style-type: none"> 128 500 4 200 200
<ul style="list-style-type: none"> - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic 	<ul style="list-style-type: none"> Not Present 1 TRUE TRUE 99 Not Present
<ul style="list-style-type: none"> - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic 	<ul style="list-style-type: none"> AM RLC TRUE 128 200 Not Present TRUE Not Present
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority 	<ul style="list-style-type: none"> 2 RBMuxOptions Not Present 1 DCH 5 4 Configured 4

Information Element	Value/remark
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index 	<p>1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit list According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)</p>
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<p>5 1 FACH Not Present Not Present 4 Not Present</p>
<p>UL Transport channel information for all transport channels Added or Reconfigured TrCH information list</p>	<p>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"</p>
<ul style="list-style-type: none"> - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size 	<p>DCH 5 Delicated transport channels Value 16 results in an RLC size of 144 bits; OctetModeType1 ((8*sizeType1)+16).</p>
<ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>List with single entry Not Present 0 ALL 40 ms Convolutional 1/3 160 16</p>
<p>DL Transport channel information common for all transport channel Added or Reconfigured TrCH information list</p> <ul style="list-style-type: none"> - 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 	<p>Not Present(Refer to SIB type 5) 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" DCH 10 Same as UL DCH 5 Not Present</p>
<p>Frequency info</p>	<p>Not present</p>
<p>Maximum allowed UL TX power CHOICE channel requirement Downlink information common for all radio links Downlink information for each radio link list</p>	<p>Not present Not Present Not Present Not present</p>

<u>Information Element</u>	<u>Value/remark</u>

Contents of RRC CONNECTION SETUP COMPLETE message: AM

Information Element	Value/remark
Message Type RRC transaction identifier START list UE radio access capability UE radio access capability extension UE system specific capability	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. Not checked Not checked Not checked Not checked

Contents of RRC STATUS message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Identification of received message</u> <u>Protocol error information</u> <u>- Protocol error cause</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u> <u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u> Not Checked Refer to test requirement.

Contents of SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier	
Integrity check info	
- Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
- Ciphering algorithm capability	
- UEA0	If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. If ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE 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. If ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE 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 algorithm capability" IE in this message.
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	CS or PS Supported domain
UE system specific security capability	Not Checked

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info Radio bearer uplink ciphering activation time info	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. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked. 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 Integrity check info - Message authentication code - RRC Message sequence number Failure cause	Checked to see if the value is the identical to the same IE in the downlink SECURITY MODE COMMAND message. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Refer to test requirement.

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark
Message Type RRC transaction identifier Integrity check info - message authentication code - RRC message sequence number Integrity protection mode info Ciphering mode info Activation time	A1, A2, A3, A4, A5, A6 A1, A2, A3, A4, A5, A6	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time	A5, A6	Not Present
New U-RNTI		Not Present
New C-RNTI	A1, A2, A3, A4	Not Present

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<u>New C-RNTI</u>	<u>A5, A6</u>	<u>'1010 1010 1010 1010'</u>
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>A1, A2, A3, A4</u>	<u>CELL_DCH</u>
<u>RRC State indicator</u>	<u>A5, A6</u>	<u>CELL_FACH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>CN information info</u>		<u>Not Present</u>
<u>URA identity</u>		<u>Not Present</u>
<u>Downlink counter synchronisation info</u>		<u>Not Present</u>
<u>UL Transport channel information for all transport channels</u>	<u>A1, A2, A5, A6</u>	<u>Not Present</u>
<u>UL Transport channel information for all transport channels</u> <u>- PRACH TFCS</u> <u>- CHOICE mode</u> <u>- TFC subset</u> <u>- UL DCH TFCS</u> <u>- CHOICE TFCI signalling</u> <u>- TFCI Field 1 information</u> <u>- CHOICE TFCS representation</u> <u>- TFCS complete reconfigure information</u> <u>- CHOICE CTFC Size</u> <u>- CTFC information</u> <u>- CTFC</u> <u>- Power offset information</u> <u>- CHOICE Gain Factors</u> <u>- Gain factor β_c</u> <u>- Gain factor β_d</u> <u>- Reference TFC ID</u> <u>- CHOICE mode</u> <u>- Power offset P_{p-m}</u>	<u>A3, A4</u>	<u>Not Present</u> <u>FDD</u> <u>Not Present</u> <u>Normal</u> <u>Complete reconfiguration</u> <u>Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set.</u> <u>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set</u> <u>Reference to TS34.108 clause 6.10.2.4 Parameter Set</u> <u>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</u> <u>11 (below 64 kbps)</u> <u>9 (higher than 64 kbps)</u> <u>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)</u> <u>15</u> <u>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)</u> <u>0</u> <u>FDD</u> <u>Not Present</u>
<u>Added or Reconfigured UL TrCH information</u>	<u>A1, A2, A5, A6</u>	<u>Not Present</u>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<p><u>Added or Reconfigured UL TrCH information</u></p> <ul style="list-style-type: none"> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- TFS</u> <u>- CHOICE Transport channel type</u> <u>- Dynamic Transport format information</u> <u>- RLC Size</u> <ul style="list-style-type: none"> <u>- Number of TBs and TTI List</u> <u>- Transmission Time Interval</u> <u>- Number of Transport blocks</u> <ul style="list-style-type: none"> <u>- CHOICE Logical Channel list</u> <u>- Semi-static Transport Format information</u> <u>- Transmission time interval</u> <ul style="list-style-type: none"> <u>- Type of channel coding</u> <ul style="list-style-type: none"> <u>- Coding Rate</u> <ul style="list-style-type: none"> <u>- Rate matching attribute</u> <ul style="list-style-type: none"> <u>- CRC size</u> <ul style="list-style-type: none"> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- TFS</u> <u>- CHOICE Transport channel type</u> <u>- Dynamic Transport format information</u> <u>- RLC Size</u> <ul style="list-style-type: none"> <u>- Number of TBs and TTI List</u> <u>- Transmission Time Interval</u> <u>- Number of Transport blocks</u> <ul style="list-style-type: none"> <u>- CHOICE Logical Channel list</u> <u>- Semi-static Transport Format information</u> <u>- Transmission time interval</u> <ul style="list-style-type: none"> <u>- Type of channel coding</u> <ul style="list-style-type: none"> <u>- Coding Rate</u> <ul style="list-style-type: none"> <u>- Rate matching attribute</u> <ul style="list-style-type: none"> <u>- CRC size</u> 	<p><u>A4</u></p>	<p><u>2 TrCHs(DCH for DCCH and DCH for DTCH)</u> <u>DCH</u> <u>5</u></p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>DCH</u> <u>1</u></p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u></p>
<p><u>Added or Reconfigured UL TrCH information</u></p> <ul style="list-style-type: none"> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- TFS</u> <u>- CHOICE Transport channel type</u> <u>- Dynamic Transport format information</u> <u>- RLC Size</u> <ul style="list-style-type: none"> <u>- Number of TBs and TTI List</u> <u>- Transmission Time Interval</u> <u>- Number of Transport blocks</u> <ul style="list-style-type: none"> <u>- CHOICE Logical Channel list</u> <u>- Semi-static Transport Format information</u> <u>- Transmission time interval</u> <ul style="list-style-type: none"> <u>- Type of channel coding</u> <ul style="list-style-type: none"> <u>- Coding Rate</u> 	<p><u>A3</u></p>	<p><u>(DCH for DTCH)</u> <u>DCH</u> <u>1</u></p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u></p>

Information Element	Condition	Value/remark
<u>- Rate matching attribute</u> <u>- CRC size</u>		<u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>CHOICE mode</u> <u>- CPCH set ID</u> <u>- Added or Reconfigured TrCH information for DRAC list</u>	<u>A1,A2,A3,A4,A5,A6</u>	<u>FDD</u> <u>Not Present</u> <u>Not Present</u>
<u>DL Transport channel information common for all transport channel</u>	<u>A1, A2, A5, A6</u>	<u>Not Present</u>
<u>DL Transport channel information common for all transport channel</u> <u>- SCCPCH TFCS</u> <u>- CHOICE mode</u> <u>- CHOICE DL parameters</u> <u>- DL DCH TFCS</u> <u>- CHOICE TFCI Signalling</u> <u>- TFCI Field 1 Information</u> <u>- CHOICE TFCS representation</u> <u>- TFCS complete reconfigure</u> <u>- CHOICE CTFC Size</u> <u>- CTFC information</u> <u>- CTFC</u> <u>- Power offset information</u>	<u>A3,A4</u>	<u>Not Present</u> <u>FDD</u> <u>Explicit</u> <u>Normal</u> <u>Complete reconfiguration</u> <u>Number of bits used must be enough to cover all combinations of CTFC from clause 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 Reference to TS34.108 clause 6.10.2.4 Parameter Set</u> <u>Not Present</u>
<u>Added or Reconfigured DL TrCH information</u>	<u>A1, A2, A5, A6</u>	<u>Not Present</u>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<p><u>Added or Reconfigured DL TrCH information</u></p> <ul style="list-style-type: none"> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>Uplink transport channel type</u> - <u>UL TrCH identity</u> - <u>DCH quality target</u> - <u>BLER Quality value</u> - <u>Transparent mode signalling info</u> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>TFS</u> - <u>CHOICE Transport channel type</u> - <u>Dynamic transport format information</u> - <u>RLC Size</u> <ul style="list-style-type: none"> - <u>Number of TBs and TTI List</u> - <u>Dynamic transport format information</u> - <u>Transmission Time Interval</u> - <u>Number of Transport blocks</u> <ul style="list-style-type: none"> - <u>Semi-static Transport Format information</u> - <u>Transmission time interval</u> <ul style="list-style-type: none"> - <u>Type of channel coding</u> <ul style="list-style-type: none"> - <u>Coding Rate</u> <ul style="list-style-type: none"> - <u>Rate matching attribute</u> <ul style="list-style-type: none"> - <u>CRC size</u> <ul style="list-style-type: none"> - <u>DCH quality target</u> - <u>BLER Quality value</u> - <u>Transparent mode signalling info</u> 	<p><u>A4</u></p>	<p><u>2 TrCHs(DCH for DCCH and DCH for DTCH)</u></p> <p><u>DCH</u></p> <p><u>10</u></p> <p><u>Same as UL</u></p> <p><u>DCH</u></p> <p><u>5</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p> <p><u>DCH</u></p> <p><u>6</u></p> <p><u>Explicit</u></p> <p><u>Dedicated transport channel</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> (This IE is repeated for TFI number.)</p> <p><u>Not Present</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>-2.0</u></p> <p><u>Not Present</u></p>
<p><u>Added or Reconfigured DL TrCH information</u></p> <ul style="list-style-type: none"> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>TFS</u> - <u>CHOICE Transport channel type</u> - <u>Dynamic transport format information</u> - <u>RLC Size</u> <ul style="list-style-type: none"> - <u>Number of TBs and TTI List</u> - <u>Dynamic transport format information</u> - <u>Transmission Time Interval</u> - <u>Number of Transport blocks</u> <ul style="list-style-type: none"> - <u>Semi-static Transport Format information</u> - <u>Transmission time interval</u> <ul style="list-style-type: none"> - <u>Type of channel coding</u> <ul style="list-style-type: none"> - <u>Coding Rate</u> <ul style="list-style-type: none"> - <u>Rate matching attribute</u> <ul style="list-style-type: none"> - <u>CRC size</u> <ul style="list-style-type: none"> - <u>DCH quality target</u> - <u>BLER Quality value</u> - <u>Transparent mode signalling info</u> 	<p><u>A3</u></p>	<p><u>DCH</u></p> <p><u>6</u></p> <p><u>Explicit</u></p> <p><u>Dedicated transport channel</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> (This IE is repeated for TFI number.)</p> <p><u>Not Present</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>-2.0</u></p> <p><u>Not Present</u></p>
<p><u>Frequency info</u></p> <ul style="list-style-type: none"> - <u>UARFCN uplink (Nu)</u> 	<p><u>A1,A2,A3,A4,A5,A6</u></p>	<p><u>Reference to clause 5.1 Test frequencies</u></p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	A1,A2,A3, A4,A5,A6	33dBm
<u>CHOICE channel requirement</u>	A5, A6	Not Present
<u>CHOICE channel requirement</u> - Uplink DPCH power control info - DPCCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	A1, A2, A3, A4	Uplink DPCH info -6dB 1 frame 7 frames Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
<u>CHOICE Mode</u> - Downlink PDSCH information	A1,A2,A3, A4,A5,A6	FDD Not Present
Downlink information common for all radio links	A5, A6	Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{\text{Pilot-DPCH}}$ - 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	A1, A2, A3	Maintain Not Present 0 (single) FDD 0 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 Not Present None Not Present Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{\text{Pilot-DPCH}}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode	A4	Initialise Not Present 0 (single) FDD 0 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 Not Present None

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - SSDT information - Default DPCH Offset Value 		Not Present Arbitrary set to value 0..306688 by step of 512
<ul style="list-style-type: none"> Downlink information for each radio link list - Downlink information for each radio links - 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 - Power offset $P_{Pilot-DPDCH}$ - Secondary CPICH info - 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 	A1, A2, A3	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used 0 chips 0 Not Present 4 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<ul style="list-style-type: none"> Downlink information for each radio link list - Downlink information for each radio links - 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 - Power offset $P_{Pilot-DPDCH}$ - Secondary CPICH info - 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 	A4	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used Set to value: Default DPCH Offset Value mod 38400 0 Not Present 4 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<ul style="list-style-type: none"> - 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 - SCCPCH information for FACH 	A5	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Not present Not Present
<ul style="list-style-type: none"> - 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 - SCCPCH information for FACH 	A6	FDD Different from the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Not present Not Present

<u>Condition</u>	<u>Explanation</u>
<u>A1</u>	<u>This IE need for "Non speech in CS"</u>
<u>A2</u>	<u>This IE need for "Speech in CS"</u>
<u>A3</u>	<u>This IE need for "Packet to CELL_DCH from CELL_DCH in PS"</u>
<u>A4</u>	<u>This IE need for "Packet to CELL_DCH from CELL_FACH in PS"</u>
<u>A5</u>	<u>This IE need for "Packet to CELL_FACH from CELL_DCH in PS"</u>
<u>A6</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>CHOICE mode</u>	<u>FDD</u>
<u>COUNT-C activation time</u>	<u>The UE shall include this IE if the following two conditions are fulfilled: (a) The TRANSPORT CHANNEL RECONFIGURATION message did not contain the IE "Ciphering activation time for DPCH" and (b) The TRANSPORT CHANNEL RECONFIGURATION message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.</u>
<u>Integrity check info</u>	<u>The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Checked to see if it meets test requirement</u>

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL_DCH)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>CHOICE mode</u> <u>DPCH/PUSCH TFCS in Uplink</u> <u>- CHOICE Subset representation</u> <u>- Allowed Transport format combination</u> <u>Activation time for TFC subset</u> <u>TFC Control duration</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. FDD Allowed transport format combination list 0 (The TFC is constructed from ALL TF0) Not Present Not Present

Contents of UE CAPABILITY ENQUIRY message: AM or UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Capability update requirement</u> <u>- UE radio access FDD capability update requirement</u> <u>- UE radio access TDD capability update requirement</u> <u>- System specific capability update requirement list</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. TRUE FALSE Not Present

Contents of UE CAPABILITY INFORMATION message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.
- <u>Message authentication code</u>	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.
- <u>RRC Message sequence number</u>	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
<u>UE radio access capability</u>	Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings
- <u>Access stratum release indicator</u>	
- <u>PDCP Capability</u>	
- <u>RLC Capability</u>	
- <u>Transport channel capability</u>	
- <u>RF Capability FDD</u>	
- <u>RF Capability TDD</u>	
- <u>Physical channel capability</u>	
- <u>UE multi-mode/multi-RAT capability</u>	
- <u>Security Capability</u>	
- <u>UE positioning Capability</u>	
- <u>Measurement capability</u>	
<u>UE radio access capability extension</u>	Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings
<u>UE system specific capability</u>	Not Checked

Contents of UE CAPABILITY INFORMATION CONFIRM message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	Set to the same value as received in the UE CAPABILITY INFORMATION message.
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- <u>Message authentication code</u>	SS calculates the value of MAC-I for this message and writes to this IE.
- <u>RRC Message sequence number</u>	SS provides the value of this IE, from its internal counter.

Contents of URA UPDATE message: TM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>U-RNTI</u> <u> - SRNC identity</u> <u> - S-RNTI</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u> - Message authentication code</u> <u> - RRC Message sequence number</u> <u>URA update cause</u> <u>Protocol error indicator</u> <u>Protocol error information</u>	0000 0000 0001B 0000 0000 0000 0000 0001B Checked to see if it is absent The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. See the test content Checked to see if it is absent or set to 'FALSE' Checked to see if it is absent

Contents of URA UPDATE CONFIRM message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>U-RNTI</u> <u> - SRNC identity</u> <u> - S-RNTI</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u> - message authentication code</u> <u> - RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>New U-RNTI</u> <u>New C-RNTI</u> <u>RRC state indicator</u> <u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>URA identity</u> <u>Downlink counter synchronisation info</u>	If this message is sent on CCCH, use the following values. Else, this IE is absent. 0000 0000 0001B 0000 0000 0000 0000 0001B Arbitrarily selects and integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present Not Present Not Present URA_PCH 3 Not Present See the test content Not Present

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type Integrity check info - Message authentication code - RRC Message sequence number	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
CN domain identity	Checked to see if set to supported a CN domain for which a signalling connection exists as specified in the IXIT statements
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 - RRC message sequence number RRC transaction identifier Integrity protection mode info Ciphering mode info New U-RNTI New C-RNTI UE Timers and constants in connected mode - T301 - N301 - T302 - N302 - T304 - N304 - T305 - T307 - T308 - T309 - T310 - N310 - T311 - T312 - N312 - T313 - N313 - T314 - T315 - N315 - T316 - T317 CN information info URA identity Downlink counter synchronisation info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Arbitrarily selects an integer between 0 and 3 Not Present Not Present See the test content See the test content 2000 milliseconds 2 4000 milliseconds 3 1000 milliseconds 3 60 minutes 50 seconds 320 milliseconds 8 seconds 320 milliseconds 5 500 milliseconds 5 seconds 200 10 seconds 200 20 seconds 30 seconds 200 50 seconds 1800 seconds Not Present Not present Not Present

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>COUNT-C activation time</u>	<u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM, (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

9.1.2 Default RRC Message Contents (TDD)[FFS]**9.2 Default Message Contents for RF**

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2kbps and UE test loop mode 1 without Dummy DCCH transmission are set to default message contents.

Contents of Activate RB Test Mode message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	44h

Contents of Close UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

Contents of Open UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	42h

Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type Paging record list -Paging record - CHOICE Used paging identity - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Streaming Call CS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Interactive Call PS domain Set to the same octet string as in the IMSI stored in the USIM card Not Present

Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark
Message Type RRC transaction identifier Integrity check info - message authentication code - RRC message sequence number Integrity protection mode info Ciphering mode info	A1,A3	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not 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 is present with the values of the sub-IEs as stated below. Else, this IE is omitted. Start/restart Use one of the supported ciphering algorithms $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ Not Present
Ciphering mode command Ciphering algorithm Ciphering activation time for DPCH Radio bearer downlink ciphering activation time info		Start/restart Use one of the supported ciphering algorithms $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ Not Present
Activation time New U-RNTI New C-RNTI <u>New DSCH-RNTI</u>		$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ Not Present Not Present <u>Not Present</u>
RRC State indicator UTRAN DRX cycle length coefficient CN information info URA identity Signalling RB information to setup		CELL_DCH Not Present Not Present Not Present Not Present
<u>RAB information for setup</u> list <u>- RAB information for setup</u>	A1	
- RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup list <u>- RB information to setup</u>		0000 0001B CS domain Not Present UseT314
- RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		10 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 1 Not Present Configured 47 1 DCH 6 Not Present Not Present

Information Element	Condition	Value/remark
RAB information for setup list - RAB information for setup	A3	
- RAB info		0000 0101B
- RAB identity		PS domain
- CN domain identity		Not Present
- NAS Synchronization Indicator		UseT314
- Re-establishment timer		
- RB information to setup list - RB information to setup		
- RB identity		20
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		AM RLC
- Transmission RLC discard		
- CHOICE SDU discard mode		No Discard
- MAX_DAT		Max DAT retransmissions
- Timer_MRW		154
- MaxMRW		400
		4
- Transmission window size		128
- Timer_RST		500
- Max_RST		4
- Polling info		
- Timer_poll_prohibit		200
- Timer_poll		200
- Poll_PDU		Not Present
- Poll_SDU		1
- Last transmission PDU poll		TRUE
- Last retransmission PDU poll		TRUE
- Poll_Windows		99
- Timer_poll_periodic		Not Present
- CHOICE Downlink RLC mode		AM RLC
- In-sequence delivery		TRUE
- Receiving window size		128
- Downlink RLC status info		
- 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		18
- 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		Configured
- MAC logical channel priority		6
- 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

Information Element	Condition	Value/remark
Downlink counter synchronisation info		Not Present
UL Transport channel information for all transport channels	A1,A3	Not Present
- PRACH TFCS		FDD
- CHOICE mode		Not Present
- TFC subset		Normal
- UL DCH TFCS		Complete reconfiguration
- CHOICE TFCI signalling		
- TFCI Field 1 information		
- CHOICE TFCS representation		
- TFCS complete reconfigure information		
- CHOICE CTFC Size		ctfc2Bit 2 bit CTFC
- ctfc2Bit CTFC information		4 TFCs
- ctfc2bit CTFC		0
- powerOffsetInformation Power offset Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Computed_Gain_Factors
- computedGainFactors		0
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
- 2bit CTFC ctfc2		2
- Power offset		
- powerOffsetInformation Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Computed_Gain_Factors
- computedGainFactors		0
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
- 2bit CTFC ctfc2		1
- Power offset		
- powerOffsetInformation Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Computed_Gain_Factors
- computedGainFactors		0
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
- 2bit CTFC ctfc2		3
- Power offset		
- powerOffsetInformation Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Signalled_Gain_Factors
- CHOICE mode		FDD
- signalledGainFactors		fd
- modeSpecificInfo		
- fd		
- Gain factor β _c		8
- Gain factor β _d		15
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
Deleted UL TrCH information list		Not Present
Added or Reconfigured UL TrCH information list	A1, A3	1
- Added or Reconfigured UL TrCH information ul-AddReconfTransChInfoList		4
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport Format Information		
- RLC size		244 bits
- Number of TBs and TTI List		2
- Transmission Time Interval		Not Present
- Number of Transport blocks		0

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - 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 - TTI -tti20 -DedicatedDynamicTF-Info -RLC-size -BitMode -sizeType2 -Part1 -Part2 -numberOfTbSizeList -NumberOfTransportBlocks -zero -NumberOfTransportBlocks -one -logicalChannelList -allSizes -semistaticTF-Information -channelCodingType -convolutional -Rate matching attribute -CRC size 		<ul style="list-style-type: none"> Not Present 1 ALL 20 Convolutional 1/3 256 16 tti20 4 BitMode sizeType2 ((Part1*8)+128+Part2=244bit) 14 4 2 zero one allSizes convolutional third 256 16
<ul style="list-style-type: none"> CHOICE mode - CPCH set ID - Added or Reconfigured TrCH information for DRAC list 	A1, A3	<ul style="list-style-type: none"> FDD Not Present Not Present
DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters 	A1,A3	<ul style="list-style-type: none"> Not Present FDD Same as UL
Deleted DL TrCH information list	A1,A3	Not Present
<ul style="list-style-type: none"> Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information-dl-AddReconfTransChInfoList(OP) - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 		<ul style="list-style-type: none"> 1 4 DCH 6 Same as UL DCH 1 -2.0-6.3 Not Present
Frequency info <ul style="list-style-type: none"> - UARFCN uplink(Nu) - UARFCN downlink(Nd) 	A1,A3	<ul style="list-style-type: none"> Not Present Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power		33dBm
-CHOICE channel requirement <ul style="list-style-type: none"> - Uplink DPCH power control info 		Uplink DPCH info
<ul style="list-style-type: none"> - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - CHOICE mode - Scrambling code type 		<ul style="list-style-type: none"> FDD -6dB 1 frame 7 frames Algorithm1 1dB FDD Long

Information Element	Condition	Value/remark
- Scrambling code number - Number of DPDCH - spreading factor		0 (0 to 16777215) 1 64
- TFCI existence - Number of FBI bit - Puncturing Limit		TRUE Not Present(0) 1
CHOICE Mode - Downlink PDSCH information		FDD Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information	A1,A3	Maintain Not Present
- CHOICE mode		FDD
- DPC mode - CHOICE mode - Power offset $P_{Pilot-DPDCH}$ - DL rate matching restriction information - Spreading factor		0 (single) FDD 0 Not Present 128
- Number of bits for Pilot bits(SF=128,256)		8
- Fixed or Flexible Position - TFCI existence		Fixed TRUE
- CHOICE SF - Number of bits for Pilot bits		128 8
- CHOICE mode		FDD
- DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value		Not Present None Not Present Not Present
Downlink information for each per radio link list - Downlink information for each radio link - CHOICE mode	A1,A3	FDD
- Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL		100 Not Present Not Present
- CHOICE mode		FDD
- Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - 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		Primary CPICH may be used 0 chips Not Present 1 128 0 No change 0 Not Present Not Present Not Present

Condition	Explanation
A1	This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected.
A3	This IE is needed for acknowledged mode.
NOTE:	In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the combination of UL and DL channels or test requirements.

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
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.
<ul style="list-style-type: none"> - SRNC identity - S-RNTI 	0000 0000 0001B 0000 0000 0000 0000 0001B
RRC transaction identifier	Arbitrarily selects an integer between 0 and 30
Integrity check info	The presence of this IE depends on 2 factors:
<ul style="list-style-type: none"> (a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. (b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. 	SS calculates the value of MAC-I for this message and writes to this IE.
<ul style="list-style-type: none"> - Message authentication code - 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 30
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 0000 0000 0000 0001B
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
- UE radio access FDD capability update requirement	TRUE
- UE radio access TDD capability update requirement	FALSE
- 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 4
- CHOICE RLC info type	RLC info
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- SDU discard mode	Timer based no explicit
- Timer discard	50
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Signalling RB information to setup	(AM DCCH for RRC)

Information Element	Value/remark
- RB identity	Not Present ²
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	Max-DAT-retransmissions 154
Timer_MRW	100
MaxMRW	4
- Transmission window size	128 ⁸
- 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 ²⁰⁰
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)

Information Element	Value/remark
<ul style="list-style-type: none"> - RB identity - CHOICE RLC info type - RLC info - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT 	<p>3Not Present</p> <p>AM RLC</p> <p>No DiscardMax-DAT-retransmissions</p> <p>154</p>
<ul style="list-style-type: none"> - Timer_MRW 	<p>100</p>
<ul style="list-style-type: none"> - MaxMRW 	<p>4</p>
<ul style="list-style-type: none"> - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll 	<p>1288</p> <p>500</p> <p>4</p> <p></p> <p>200</p> <p>200</p>
<ul style="list-style-type: none"> - Poll_PDU 	<p>Not Present</p>
<ul style="list-style-type: none"> - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows 	<p>1</p> <p>TRUE</p> <p>TRUE</p> <p>99</p>
<ul style="list-style-type: none"> - Timer_poll_periodic 	<p>Not Present</p>
<ul style="list-style-type: none"> - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator 	<p>AM RLC</p> <p>TRUE</p> <p>128</p> <p></p> <p>200</p> <p>Not Present200</p> <p>TRUE</p>
<ul style="list-style-type: none"> - Timer_STATUS_periodic 	<p>Not Present</p>
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type -UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<p>2 RBMuxOptions</p> <p>Not Present</p> <p>1</p> <p>DCH</p> <p>5</p> <p>3</p> <p>Configured</p> <p>3</p> <p></p> <p>1</p> <p>DCH</p> <p>10</p> <p>Not Present</p> <p>3</p> <p>Not Present</p> <p>1</p> <p>RACH</p> <p>Not Present</p> <p>3</p> <p>Configured</p> <p>4</p> <p></p> <p>1</p> <p>FACH</p> <p>Not Present</p> <p>Not Present</p> <p>3</p>
<ul style="list-style-type: none"> - Signalling RB information to setup 	<p>(AM DCCH for NAS_DT Low priority)</p>

Information Element	Value/remark
- RB identity	<u>Not present</u> ⁴
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	<u>No Discard</u> ^{Max-DAT-retransmissions}
- MAX_DAT	<u>154</u>
Timer_MRW	100
MaxMRW	4
- Transmission window size	<u>128</u> ⁸
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
<u>- Poll_PDU</u>	<u>Not Present</u>
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
<u>- Timer_poll_periodic</u>	<u>Not Present</u>
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	<u>128</u>
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	<u>Not Present</u> ²⁰⁰
- Missing PDU indicator	TRUE
<u>- Timer_STATUS_periodic</u>	<u>Not Present</u>
- 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	Configured
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	

Information Element	Value/remark
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	<u>Addition</u> <u>Complete reconfiguration</u>
- TFCS complete reconfigure reconfiguration	
<u>information</u>	
- CHOICE CTFC Size	<u>2 bit CTFC</u> ctfc2Bit
- <u>CTFC information</u> ctfc2Bit	<u>2 TFCs</u>
- <u>2bit CTFC</u> ctfc2	0
- <u>Power offset</u>	
<u>Information</u> powerOffsetInformation(OP)	
- <u>gainFactorInformation</u> <u>CHOICE Gain</u>	computedGainFactors
<u>Factors</u>	
- <u>computedGainFactors</u> <u>Reference TFC ID</u>	0
- <u>CHOICE mode</u>	<u>FDD</u>
- <u>Power offset Pp-m</u> powerOffsetPp-m(OP)	<u>Not Present</u>
- <u>2bit CTFC</u> ctfc2	1
- <u>powerOffsetInformation(OP)</u> <u>Power offset</u>	
<u>Information</u>	
- <u>gainFactorInformation</u> <u>CHOICE Gain</u>	signalledGainFactors
<u>Factors</u>	
- <u>CHOICE mode</u> signalledGainFactors	<u>FDD</u>
- modeSpecificInfo	fed
- fed	
- Gain factor βc	15
- Gain factor βd	15
- Reference TFC ID	0
- <u>CHOICE mode</u>	<u>FDD</u>
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information <u>list</u>	<u>1</u>
- <u>Added or Reconfigured UL TrCH information</u>	
- ul-AddReconfTransChInfoList	<u>4</u>
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- <u>Dynamic Transport Format Information</u>	
- <u>RLC size</u>	<u>96 bits</u>
- <u>Number of TBs and TTI List</u>	<u>2</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>0</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>1</u>
- <u>CHOICE Logical Channel List</u>	<u>ALL</u>
- <u>Semi-static Transport Format Information</u>	
- <u>Transmission time interval</u>	<u>40</u>
- <u>Type of channel coding</u>	<u>Convolutional</u>
- <u>Coding Rate</u>	<u>1/3</u>
- <u>Rate matching attribute</u>	<u>256</u>
- <u>CRC size</u>	<u>12</u>
- TTI	tti40
- tti40	4
- DedicatedDynamicTF-Info	
- RLC size	octetModeType1 ((8*sizeType1)+16=96bit)
- octetModeType1	sizeType1
- sizeType1	40
- numberOfTbSizeList	2

Information Element	Value/remark
-NumberOfTransportBlocks -zero	zero
-NumberOfTransportBlocks -one	one
-logicalChannelList -allSizes	allSizes
-semistaticTF-Information -channelCodingType -convolutional	convolutional third
-Rate matching attribute	256
-CRC size	crc12
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters	Not Present FDD Same as UL
Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information	1
-dl-AddReconfTransChInfoList	4
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH Identity - DCH quality target - BLER Quality value	DCH 10 SameasUL DCH 5 -2.0-6.3
Transparent mode signalling info	Not Present
Frequency info	Not present
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	Not present33dBm
Uplink DPCH infoCHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info - DPCCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size	-6dB 1 frame 7 frames Algorithm1 1dB
- CHOICE mode	FDD
_ Scrambling code type _ Scrambling code number _ Number of DPDCH spreading Spreading factor _ TFCI existence _ Number of FBI bit _ Puncturing Limit	Long 0 (0 to 16777215) Not present (1) 256 TRUE Not Present(0) 1
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing Indication - CFN-targetSFN frame offset	Initialise Not present0
CHOICE mode	FDD
- Downlink DPCH power control information	
- CHOICE mode	FDD
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P _{Pilot-DPDCH} - DL rate matching restriction information - Spreading factor	0 Not Present 256

Information Element	Value/remark
-Number of bits for Pilot bits(SF=128,256)	8
- Fixed or Flexible Position	Fixed
- TFCI existence	FALSE
- CHOICE SF	
- Number of bits for Pilot bits	8
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSdT information	Not Present
- Default DPCH Offset Value	Arbitrary set to value 0..306688 by step of 5120
Downlink information for each_per radio links list	
-Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- CHOICE mode	FDD
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value : Default DPCH Offset Value mod 384000 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	256
- Code number	0
- Scrambling code change	Not presentNo 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 SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier	
Integrity check info	
- Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
- Ciphering algorithm capability	
- UEA0	<u>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 ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.</u>
- UEA1	<u>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 ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.</u>
- Spare	Spare 2-15 = FALSE
- Integrity protection algorithm capability	000000000000010B (UIA1)
- UIA1	TRUE
- Spare	<u>Spare 0 and Spare 2-15 = FALSE</u>
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	<u>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 algorithm capability" IE in this message.</u>
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	<u>CS or PS Supported domain</u>
UE system specific security capability	Not Checked

3GPP TSG- T1 Meeting #15
Lund, Sweden, 21st, 24th May 2002

T1-020279

3GPP TSG-T1/SIG Meeting #23
Lund, Sweden, 20-23 May 2002

Tdoc T1S-020245r3

CR-Form-v5.1

CHANGE REQUEST

⌘ **34.108 CR 104** ⌘ rev **-** ⌘ Current version: **3.7.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ Corrections to clause 6.1

Source: ⌘ MCI, Ericsson

Work item code: ⌘ TEI

Date: ⌘ 2002-05-10

Category: ⌘ **F**

Use one of the following categories:

- F** (correction)
- A** (corresponds to a correction in an earlier release)
- B** (addition of feature),
- C** (functional modification of feature)
- D** (editorial modification)

Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Release: ⌘ **R99**

Use one of the following releases:

- 2** (GSM Phase 2)
- R96** (Release 1996)
- R97** (Release 1997)
- R98** (Release 1998)
- R99** (Release 1999)
- REL-4** (Release 4)
- REL-5** (Release 5)

Reason for change: ⌘ 1) Agreed in T1SIG#22

-- T1S-020158r1

The corrections to default message included in this CR are proposed for the following reasons:

- To align with the latest revision of the core specifications
- To introduce information that is typically needed in real network configurations
- To avoid transmission of redundant information (efficiency)

-- T1S-020206

There are some errors and some unrealistic choices in the current default settings of SIB 11 and 12, which are proposed to be corrected.

2) T1SIG#23

- There is an inconsistency for the value of Qqualmin, Qrxlevmin and Maximum allowed UL TX power between table 6.1.1 and SIB 3/4.
- The specified CTFC "10" for SCCPCH is not defined in TS34.108 clause 6.10.2.4.3.3.1.4.
- It is proposed to set to "Not Present" in all MD IEs for UE Timer Value so that default value shall be used.
- N312 from 200 to 1. T312 from 5 to 1.

When a physical dedicated channel establishment is initiated by the UE, the UE starts a timer T312 and waits for layer 1 to indicate N312 successive "in sync" indications. On receiving N312 successive "in sync" indications, the physical channel is considered established and the timer T312 is stopped and reset. If the timer T312 expires before the physical channel is established, the

UE considers this as a "physical channel establishment failure".
Is it necessary to wait for 200 "in sync" indications to determine that the channel is established.

Proposal to change N312 to 1 and T312 to 1. This is also in line with the default values as specified in 25.331.

- N315 from 200 to 1. T313 from 10 seconds to 3 seconds.

In CELL_DCH state, after receiving N313 consecutive "out of sync" indications from layer 1 for the established DPCH physical channel in FDD, and the DPCH associated with mapped DCCHs in TDD, the UE starts timer T313. Upon receiving N315 successive "in sync" indications from layer 1 and upon change of UE state the UE stops and resets timer T313. If T313 expires the UE considers it as a "Radio link failure".

Is it necessary to wait for 200 "in sync" indications to determine that the connection is ok.

Proposal to change N315 to 1 and T313 to 3 seconds. This is also in line with the default values as specified in 25.331.

- T317 from 1800 to 180.

T317 specifies a time, in seconds, for a UE to move from CELL_FACH to idle mode when "out of service area". Currently this is defined as 1800 seconds (30 minutes). This is too long. Proposal to change this to the 25.331 specified default value of 180 seconds

- SIB3 and SIB4. Change the value of Qhyst1s to 2. A hysteresis value of 0 does not serve any purpose.
- Slimit,SearchRAT is a mandatory IE so insert a value.
- Some elements of the "Access Service Class" list included within IE "PRACH partitioning" have been removed. This change avoids the transmission of redundant information and at the same time verifies the non-trivial "mandatory default" scheme defined for this IE in SIB5 and 6.
- The corrections to the SIB5/6 messages included in this CR are proposed for the following reasons.

- To align with the latest revision of the core specifications

- To introduce information that is typically needed in real network configurations

- To avoid transmission of redundant information (efficiency)

- From viewing the tabular format of the MIB and SB it is difficult to fully envisage how this information appears when laid out in Transport Blocks. It is proposed that a new table is inserted to provide this view.

- There should be more than one cell as New intra-frequency cells in SIB 11 and 12 so that test condition in MM and GMM test case can be actualised.

Summary of change: ☼ 1) Agreed T1SIG#22

-- T1S-020158r1(with Yellow marker)

SIB 5/ 6 default message

- For FDD primary CCPCH info only includes IE "Tx diversity indicator". In the latest RRC version it is clarified that in case Tx diversity is not used, then FDD Primary CCPCH info IE need not to be included (25.331 clause 10.2.48.8.8). The IE primary CCPCH info for FDD should thus be marked as Not Present to avoid transmission of redundant information (efficiency)
- In TS TS 25.331 the IE "Primary CPICH usage for channel estimation" was removed (replaced by dummy) from IE "Secondary CCPCH info" (for FDD).

Therefore the IE is also removed from the default message

- In TS TS 25.331 the IE secondary CPICH info was removed (replaced by dummy) from IE "Secondary CCPCH info" (for FDD). Therefore the IE is also removed from the default message.

-- T1S-020206(with Yellow marker)

The following corrections are proposed to the default content of SIB11 and 12:

- 1) Cell 1 is the serving cell for the UE in the default environment, and therefore, the IE Cell selection and reselection should not be included for that cell.
- 2) According to the current settings, the "Cell synchronisation information" shall be reported by the UE for the active set cells, and not for the monitored set cells. It is proposed to have the contrary configured, since getting the cell synchronisation information is mainly useful for the monitored cells (when such a cell needs to be added to the active set of the UE), while it does not seem that useful to get it for a cell in the active set.
- 3) The IEs "Reporting deactivation threshold", "Amount of reporting" and "Reporting interval" are not needed for event 1b.
- 4) It is proposed to add event 1c to the default SIBs 11 and 12, since this seems to be the most natural choice to make: if event 1c is not configured, and if the "reporting deactivation threshold" is set to 3 for event 1a, as it is the case with the current settings, in case the UE has three cells in its active set and drifts in an area where the quality of the three cells decreases at the same time (in which case event 1b might never be triggered), UTRAN will never get any information about which cell should be added to the active set of the UE to save the connection.

In SIB 12, the serving cell is not included, since it has already been included in SIB 11.

2) T1SIG#23

The following corrections are added into SIB3 and 4 **for FDD**.

Qqualmin -20 dB → Reference to table 6.1.1

Qrxlevmin -115 dBm → Reference to table 6.1.1

Maximum allowed UL TX power 33 dBm → Reference to table 6.1.1

The following TFC is removed in SIB5 and 6.

(PCH, FACH for CCCH/DCCH/BCCH, FACH for DTCH) = (TF0, TF2, TF1)

The green marker show the revisions as rev1.

The SIB_POS in MIB an SB1 should be set to multiple of 2.

Correction of Cell Value tag (should be 1 not 2) and SEG_COUNT (should be 1 not 2) for SB1.

Change the values of some timers and constants in SIB1.

Change the value of Qhyst1s to 2 in SIB 3 and 4.

Insert a value for Slimit,SearchRAT in SIB 3 and 4.

The IE "Preamble Retrans Max" is changed from 2 to 4. RSCP measurements have limited accuracy. Therefore a value of 2 is considered to be on the low side; 4 is considered to be a more typical value used in real network configurations in SIB5 and 6.

In 6.1.1 the IE "AICH transmission timing" is changed from 0 to 1. This IE concerns a basic parameter for which a value of 1 may be required in larger cells.

The change ensures that both values are verified in SIB5 and 6.

In SIB 6, subclause 6.1, the TFS for the FACH on which the SRBs are mapped includes 4 TF while the corresponding TFS in SIB 5 only includes 3 TFs. The additional TF included in SIB 6 has been removed since it is not used (considering the CTFC- values) and marked as an alternative configuration in section 6.10.2.4.3.3.1.4.

“Reporting deactivation threshold” for event 1a in SIB11 and SIB12 changed from 3 to 2.

Insert table showing how MIB/SB/SIBs are allocated over one System Information cycle.

To make navigation in 34.108 easire the style of the headings for MIB, SB and SIB tables have been changed to “Heading 7” to achive that the headings appear in table of contents.

The blue marker show the revisions as rev2.

The number of cells is set to 8 from 1and each cell information are included in SIB 11 and 12.

The blue marker show the revisions as rev3.

Consequences if not approved:

- ⌘ 1) Agreed T1SIG#22
 - T1S-020158r1
 - In case the CR is not approved the test specification will
 - remain misaligned with the latest revision of the core specifications
 - lack information that is typically needed in real network configurations
 - include transmission of redundant information (inefficiency)
 - T1S-020206
- Erroneous/unrealistic default parameter settings of SIB11/12
- 2) T1SIG#23
- It will remain an inconsistency definition in SIB 3 and 4.
- It will remain an impossible TFC in SCCPCH.
- Some strange values for some timers and constants will be In use.
- MM and GMM test cases cannot work.

Clauses affected:	⌘	6.1, 6.1.1, 6.1.2, 6.1.3,
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>

6 Reference System Configurations

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

6.1 Simulated network environments

The UE will eventually have to operate in either single mode networks (FDD or TDD) and dual mode networks (FDD+TDD).

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

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

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

6.1.0a Default Master Information Block and Scheduling Block messages

6.1.0a.1 Grouping SIBs for testing

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

6.1.0a.2 SIB configurations

Currently three SIB configurations are used, Configuration 1 is default for both UTRAN/FDD SYSTEM and UTRAN/FDD + GERAN SYSTEM. Configuration 2 is for test cases which need two S_CCCH or two PRACH. Configuration 3 is for inter-RAT handover test cases.

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

6.1.0a.3 SIB default schedule

Block Type	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5	SIB6	SIB7	SIB11	SIB12	SIB18
SIB REP	8	16	64	64	64	64	64	64	16	64	64	64
SEG COUNT	1	1	1	1	1	1	4	4	1	3	3	1

Frame No / SIB POS	<u>0</u>	<u>2</u>	<u>4</u>	<u>6</u>	<u>8</u>	<u>10</u>	<u>12</u>	<u>14</u>
Block Type	MIB	SB1	SIB7	SIB6	MIB	SIB6	SIB6	SIB6
Frame No / SIB POS	<u>16</u>	<u>18</u>	<u>20</u>	<u>22</u>	<u>24</u>	<u>26</u>	<u>28</u>	<u>30</u>
Block Type	MIB	SB1	SIB7/SIB 3	SIB1/SIB 2	MIB	SIB12	SIB12	SIB12
Frame No / SIB POS	<u>32</u>	<u>34</u>	<u>36</u>	<u>38</u>	<u>40</u>	<u>42</u>	<u>44</u>	<u>46</u>
Block Type	MIB	SB1	SIB7/SIB 18	SIB5	MIB	SIB5	SIB5	SIB5
Frame No / SIB POS	<u>48</u>	<u>50</u>	<u>52</u>	<u>54</u>	<u>56</u>	<u>58</u>	<u>60</u>	<u>62</u>
Block Type	MIB	SB1	SIB7/SIB 4		MIB	SIB11	SIB11	SIB11

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

- MIB value tag	1
- Supported PLMN types	GSM-MAP
- PLMN type	
- PLMN identity	Set to the same Mobile Country Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MCC digit	Set to the same Mobile Network Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MNC digit	Not Present
- ANSI-41 Core Network information	
- 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	21
- Scheduling	
- SEG_COUNT	21
- SIB_REP	16
- SIB_POS	42
- SIB_POS offset info	Not Present – use default
- SIB type	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	1122
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 1
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	1122
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 2
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	1020
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 3
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	2652
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 4
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	1938
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB type	System Information Type 5

Contents of Scheduling Block 1 (FDD)

- References to other system information blocks	
- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	4
- SEG_COUNT	64
- SIB_REP	36
- SIB_POS	4
- SIB_POS offset info	2
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	Not Present
- CHOICE Value tag	1
- SEG_COUNT	16
- SIB_REP	24
- SIB_POS	Not Present
- SIB_POS offset info	System Information Type 7
- SIB type SIBs only	
- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	3
- SEG_COUNT	64
- SIB_REP	2958
- SIB_POS	2
- SIB_POS offset info	2
- SIB_OFF	System Information Type 11
- SIB type SIBs only	
- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	3
- SEG_COUNT	64
- SIB_REP	1326
- SIB_POS	2
- SIB_POS offset info	2
- SIB_OFF	System Information Type 12
- SIB type SIBs only	
- Scheduling information	PLMN Value tag
- CHOICE Value tag	1
- PLMN Value tag	1
- SEG_COUNT	64
- SIB_REP	1836
- SIB_POS	Not Present
- SIB_POS offset info	System Information Type 18
- SIB type SIBs only	

Contents of Scheduling Block 1 (TDD)

- References to other system information blocks	
- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	4
- SEG_COUNT	128
- SIB_REP	19
- SIB_POS	4
- SIB_POS offset info	2
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 5
- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	4
- SEG_COUNT	

- SIB_REP	128
- SIB_POS	35
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	
- CHOICE Value tag	Not Present
- SEG_COUNT	1
- SIB_REP	32
- SIB_POS	11
- 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	2
- SIB_REP	128
- SIB_POS	29
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	61
- SIB_POS offset info	
- 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	128
- 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 80H
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00H
- CN domain specific DRX cycle length coefficient	7
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	1E 01H
- CN domain specific DRX cycle length coefficient	7
- UE Timers and constants in idle mode	
-T300	4000 milliseconds
-N300	7
-T312	10 seconds
- N312	<u>2001</u>
- UE Timers and constants in connected mode	
- T301	<u>Not Present (2000 milliseconds : default value)</u>
- N301	<u>Not Present (2 : default value)</u>
- T302	<u>Not Present (4000 milliseconds : default value)</u>
- N302	<u>Not Present (3 : default value)</u>
- T304	<u>Not Present (42000 milliseconds : : default value)</u>
- N304	<u>Not Present (32 : default value)</u>
- T305	<u>Not Present (630 minutes: default value)</u>
- T307	<u>Not Present (530 seconds : default value)</u>
- T308	<u>Not Present (160320 milliseconds : default value)</u>
- T309	<u>Not Present (85 seconds : default value)</u>
- T310	<u>Not Present (160320 milliseconds : default value)</u>
- N310	<u>Not Present (54 : default value)</u>
- T311	<u>Not Present (2000500 milliseconds : default value)</u>
- T312	<u>Not Present (1 seconds- : : default value)</u>
- N312	<u>Not Present (200 1 : default value)</u>
- T313	<u>Not Present (40 3 seconds : : default value)</u>
- N313	<u>Not Present (20 : default value)</u>
- T314	<u>Not Present (20-12 seconds: default value)</u>
- T315	<u>30Not Present (180 seconds : default value)</u>
- N315	<u>Not Present (200 1 : default value)</u>
- T316	<u>Not Present (5030 seconds: default value)</u>
- T317	<u>Not Prsented (1800 seconds : default value)</u>

Contents of System Information Block type 2

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

Contents of System Information Block type 3 (FDD)

- SIB4 indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not Present
- Cell selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not Present
- RAT List	This parameter is configurable.
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- Slimit,SearchRAT	Not Present
- Qqualmin	Reference to table 6.1.1-20 dB
- Qrxlevmin	Reference to table 6.1.1-115 dBm
- Qhyst1s	0-2 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1-33dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 3 (TDD)

- SIB4 Indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not present
- Cell selection_and_reselection_quality_measure	CPICH RSCP
- 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,SsearchRAT	Not Present
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping Info	Not present
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not present
- RAT List	This parameter is configurable.
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- S _{limit,SearchRAT}	Not Present
- Qqualmin	Reference to table 6.1.1-20 dB
- Qrxlevmin	Reference to table 6.1.1-115 dBm
- Qhyst1s	0-2 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.133dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Access Class Barred	Not barred
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 4 in connected mode (similar to SIB type3) (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	CPICH RSCP
- 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,SsearchRAT	Not Present
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 5 (FDD)

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

- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	'1111'B
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	'1111'B
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	'1111'B
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE

- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- CTFC information	6
- Power offset information	Not Present
- CTFC information	8
- Power offset information	Not Present
- CTFC information	10
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- 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	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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

Contents of System Information Block type 5 (TDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE <i>mode</i>	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	
- ASC Settings	(ASC#0)

- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- CHOICE <i>mode</i>	TDD (no data)
- Secondary CCPCH system information	
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE <i>mode</i>	TDD
- Offset	0
- Common timeslot info	
- 2 nd interleaving mode	Frame
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	Not Present (MD "1")
- Repetition length	Not present
- Individual timeslot info	
- Timeslot number	1
- TFCI existence	Reference clause 6.10 Parameter Set
- Midamble Shift and burst type	
- CHOICE Burst Type	Type 1
- Midamble Allocation Mode	Default midamble
- Midamble configuration burst type 1 and 3	4

<ul style="list-style-type: none"> - Midamble Shift - Code List - Channelisation Code - TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Transport Channel Identity - CTCH indicator - PICH info - CHOICE <i>mode</i> - Channelisation code - Timeslot number - CHOICE Burst Type 	<p>Not Present</p> <p>Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.)</p> <p>Addition</p> <p>Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 Parameter Set</p> <p>Not Present</p> <p>(PCH) Common transport channels</p> <p>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</p> <p>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</p> <p>Reference clause 6.10 Parameter Set 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</p> <p>Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set 13 (for FACH) FALSE (FACH) Common transport channels</p> <p>Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set TDD ALL</p> <p>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 14 (for FACH) FALSE</p> <p>TDD 16/16 0 Type 1</p>
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- Midamble Shift	0
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

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

- PICH power offset	-5 dB
- CHOICE Mode	FDD
- AICH power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	11
- Gain factor βd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present

CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping	Not Present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system info	
- Secondary CCPCH info	
Primary CPICH usage for channel estimation	Primary CPICH may be used
Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE

- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	Complete reconfiguration
- CHOICE TFCS representation	4 bit
- TFCS addition information	0
- CHOICE CTFC Size	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- CTFC information	6
- Power offset information	Not Present
- CTFC information	8
- Power offset information	Not Present
- CTFC information	40
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240 (PCCH)
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- 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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- SCTD indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	

- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	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 nd interleaving mode	Not Present (MD "Frame")
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	Not Present (MD "1")
- Repetition length	Not present
- Individual timeslot info	
- Timeslot number	1
- TFCI existence	Reference clause 6.10 Parameter Set
- Midamble Shift and burst type	
- CHOICE Burst Type	Type 1
- Midamble Allocation Mode	Default midamble

- Midamble configuration burst type 1 and 3	4
- Midamble Shift	Not Present
- Code List	
- Channelisation Code	Reference clause 6.10 Parameter Set
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	Addition
- CHOICE TFCS representation	
- TFCS addition information	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CHOICE CTFC Size	Reference clause 6.10 Parameter Set
- CTFC information	Not Present
- Power offset information	
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	13 (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- CTCH indicator	FALSE
- PICH info	
- CHOICE <i>mode</i>	TDD
- Channelisation code	16/16
- Timeslot number	0
- CHOICE Burst Type	Type 1

- Midamble Shift	0
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

Contents of System Information Block type 7 (FDD)

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

Contents of System Information Block type 7 (TDD)

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

- SIB12 indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	Not Present
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	33 dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency cell id	2
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	3
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1

- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	4
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	5
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	6
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	7
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present

- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	8
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	0
- Filter coefficient	CPICH RSCP
- Measurement quantity	Not Present
- Intra-frequency reporting quantity for RACH Reporting	
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	TRUE FALSE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	FALSE TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode	Event trigger
- CHOICE report criteria	Intra-frequency measurement reporting criteria

- Intra-frequency measurement reporting criteria	23 kinds
- Parameters required for each event	1a
- Intra-frequency event identity	Not Present
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	5dB
- Reporting Range	Not Present
- Cells forbidden to affect Reporting range	1.0
- W	0.0
- Hysteresis	Not Present
- Threshold Used Frequency	32
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	640
- Time to trigger	4
- Amount of reporting	4000
- Reporting interval	
- Reporting cell status	Report cell within active set and/or monitored set cells on used frequency
- CHOICE reported cell	3
- Maximum number of reported cells	1b
- Intra-frequency event identity	Active set cells and monitored set cells
- Triggering condition 1	Not Present
- Triggering condition 2	5dB
- Reporting Range	Not Present
- Cells forbidden to affect Reporting range	1.0
- W	0.0
- Hysteresis	Not Present
- Threshold Used Frequency	3Not Present
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	640
- Time to trigger	4Not Present
- Amount of reporting	4000Not Present
- Reporting interval	
- Reporting cell status	Report cell within active set and/or monitored set cells on used frequency
- CHOICE reported cell	3
- Maximum number of reported cells	1c
- Intra-frequency event identity	Not Present
- Triggering condition 1	Not Present
- Triggering condition 2	Not Present
- Reporting Range	Not Present
- Cells forbidden to affect Reporting range	Not Present
- W	Not Present
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	3
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

Contents of System Information Block type 11 (TDD)

- SIB 12 Indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used

- Cell_selection_and_reselection_quality_measure	CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE
- CHOICE mode	TDD
- Primary CCPCH info	
- Cell parameters ID	Reference clause 6.1 Default settings for cell
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Burst type	Not Present
- Cell Selection and Re-selection info	Not Present
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- CHOICE mode	TDD
- Measurement quantity list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	TRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger	Event trigger
Reporting Mode	
- 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	Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	2
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1

- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	2
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	3
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	4
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	5
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD

- Primary CPICH info	Refer to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1
- Primary scrambling code	Not Present
- Primary CPICH TX power	FALSE
- TX Diversity indicator	
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	6
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	7
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	8
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1

- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause "Default settings for cell No.1 (FDD)" in clause 6.4
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset _{s,n}	0 dB
- Qoffset _{2s,n}	Not Present
- Maximum allowed UL TX power	33dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement quantity	CPICH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	TRUEFALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	FALSETRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode	Event trigger
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	3 kinds
- Intra-frequency event identity	1a
- Triggering condition 1	Not Present
- Triggering condition 2	Active set cells and monitored set cells
- Reporting Range	5dB
- Cells forbidden to affect reporting range	Not Present
- W	1.0

- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	32
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	0
- Reporting cell status	
- CHOICE reported cell	Report cell Within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Intra-frequency event identity	1b
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	Not Present
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4Not Present
- Reporting interval	4000Not Present
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Intra-frequency event identity	1c
- Triggering condition 1	Not Present
- Triggering condition 2	Not Present
- Reporting Range	Not Present
- Cells forbidden to affect Reporting range	Not Present
- W	Not Present
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	3
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	

- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE
- CHOICE mode	TDD
- Primary CCPCH info	
- Cell parameters ID	Reference clause 6.1 Default settings for cell
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Burst type	
- Cell Selection and Re-selection info	Not Present
- Cell for measurement	Not present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- CHOICE mode	TDD
- Measurement list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	No report
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	TRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger	Event trigger
Reporting Mode	
- 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	Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	2

- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

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

Contents of System Information Block type 14 (TDD)

- Individual Timeslot interference list	
- Individual Timeslot interference	
- Timeslot number	2
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	3
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	4
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	5
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	6
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	7
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	9
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	10
- UL Timeslot Interference	-90 dbm
- Individual Timeslot interference	
- Timeslot number	11

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

Contents of System Information Block type 16

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

Contents of System Information Block type17 (TDD)

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

Contents of System Information Block type 18

- Idle mode PLMN identities	
- PLMNs of intra-frequency cells list	
- 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

Default settings for cell No.1 (FDD):

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

Default settings for cell No.1 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	0

Cell No.2

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

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

Default settings for cell No.2 (FDD):

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

Default settings for cell No.2 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	4

Cell No.3

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

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

Default settings for cell No.3 (FDD):

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

Default settings for cell No.3 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	8

Cell No.4

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

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

Default settings for cell No.4 (FDD):

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

Default settings for cell No.4 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	12

Cell No.5

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

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

Default settings for cell No.5 (FDD):

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

Default settings for cell No.5 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	114

Cell No.6

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

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

Default settings for cell No.6 (FDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CPICH info	
- Primary scrambling code	350

Default settings for cell No.6 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	119

Cell No.7

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

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

Default settings for cell No.7 (FDD):

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

Default settings for cell No.7 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	123

Cell No.8

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

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

Default settings for cell No.8 (FDD):

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

Default settings for cell No.8 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	127

Reference Radio Conditions for signalling test cases only (FDD)

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

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

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

Parameter	Unit	Cell 1
Cell type		Serving cell
UTRA-RE Channel Number		Channel 1
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	24
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60
NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.		
NOTE 2: The cell fulfils TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.		

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

Parameter	Unit	Cell 1	Cell 2
Cell type		Serving cell	Suitable neighbour cell
UTRA RF Channel Number		Channel 1	Channel 1
Qqualmin	dB	-24	-24
Qrxlevmin	dBm	-80	-80
UE_TXPWR_MAX_RACH	dBm	21	21
CPICH_Ec (see notes 1 and 2)	dBm/3.84 MHz	-60	-70

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

NOTE 2: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.

Table 6.1.3: Default settings for a non-suitable cell

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH_Ec	dBm/3.84 MHz	-90

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

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

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

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH_Ec	dBm/3.84 MHz	≤ -122

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

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

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

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

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

Reference Radio Conditions for signalling test cases only (TDD)

<FFS>

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
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id = 0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD

- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	01
- Secondary CCPCH system information	(For 2 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	4
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	

- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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

- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)

- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#3)
- Available signature Start Index	7 (ASC#3)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#5)
- Available signature Start Index	7 (ASC#5)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#7)
- Available signature Start Index	7 (ASC#7)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	Not present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	3dB
- Power Ramp Step	24
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	01
- Secondary CCPCH system information	(For 2 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	4
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1

- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- 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

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

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

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

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD

- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	3dB
- Power Ramp Step	24
- Preamble Retrans Max	2
- RACH transmission parameters	3 slot
- Mmax	10 slot
- NB01min	
- NB01max	
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	(For 2 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	4
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	

- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	5
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	complete
- TFCS addition information	
- CHOICE CTFC Size	2 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

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

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

- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)

- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#3)
- Available signature Start Index	7 (ASC#3)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	Not present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	3dB
- Power Ramp Step	24
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	90
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1

- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	16 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	17 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

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

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

Contents of Scheduling Block 1 (FDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1

- SEG_COUNT	3
- SIB_REP	128
- SIB_POS	26
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 5
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	128
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 7
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	58
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	106
- SIB_POS offset info	
- 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	6
- SIB_REP	128
- SIB_POS	74
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	8
- SIB_OFF	4
- SIB_OFF	2
- SIB type SIBs only	System Information Type 16

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	FALSE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD

- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	3dB
- Power Ramp Step	24
- Preamble Retrans Max	2
- RACH transmission parameters	3 slot
- Mmax	10 slot
- NB01min	
- NB01max	
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	(For 3 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	6
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	

- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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

- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- 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
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	90
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	

- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	16 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	17 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

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

Default settings for cell No.1 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	0

Cell No.2

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

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

Default settings for cell No.2 (FDD):

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

Default settings for cell No.2 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	4

Cell No.3

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

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

Default settings for cell No.3 (FDD):

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

Default settings for cell No.3 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	8

Cell No.4

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

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

Default settings for cell No.4 (FDD):

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

Default settings for cell No.4 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	12

Cell No.5

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

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

Default settings for cell No.5 (FDD):

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

Default settings for cell No.5 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	114

Cell No.6

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

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

Default settings for cell No.6 (FDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CPICH info	
- Primary scrambling code	350

Default settings for cell No.6 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	119

Cell No.7

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

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

Default settings for cell No.7 (FDD):

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

Default settings for cell No.7 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	123

Cell No.8

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

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

Default settings for cell No.8 (FDD):

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

Default settings for cell No.8 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	127

6.1.5 Reference Radio Conditions for signalling test cases only (FDD)

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

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

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

Parameter	Unit	Cell 1
Cell type		Serving cell
UTRA RF Channel Number		Channel 1
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60
NOTE 1: The power level is specified in terms of CPICH Ec instead of CPICH RSCP as RSCP is a receiver measurement and only CPICH Ec can be directly controlled by the SS.		
NOTE 2: The cell fulfils TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.		

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

Parameter	Unit	Cell 1	Cell 2
Cell type		Serving cell	Suitable neighbour cell
UTRA RF Channel Number		Channel 1	Channel 1
Qqualmin	dB	-24	-24
Qrxlevmin	dBm	-80	-80
UE_TXPWR_MAX_RACH	dBm	21	21
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60	-70

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

NOTE 2: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.

Table 6.1.3: Default settings for a non-suitable cell

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH Ec	dBm/3.84 MHz	-90

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

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

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

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH Ec	dBm/3.84 MHz	≤ -122

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

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

Table 6.1.5: Default power levels of physical channels relative to CPICH Ec

Parameter	Unit	Level Idle mode	Level Connected mode
DPCH Ec	dB	(NOTE)	-5
PCCPCH Ec	dB		-2
SCCPCH Ec	dB		-2
AICH Ec	dB		-5
SCH Ec	dB		-2
PICH Ec	dB		-5

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

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

<FFS>

<End of modified section>

CR-Form-v5.1

CHANGE REQUEST

⌘ **34.108 CR 105** ⌘ rev **-** ⌘ Current version: **3.7.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ WCDMA 1800 additions for TS34.108 R99
Source:	⌘ Nokia
Work item code:	⌘ <input type="text"/>
Date:	⌘ 8 May, 2002
Category:	⌘ F
Use <u>one</u> of the following categories:	
F (correction)	2 (GSM Phase 2)
A (corresponds to a correction in an earlier release)	R96 (Release 1996)
B (addition of feature),	R97 (Release 1997)
C (functional modification of feature)	R98 (Release 1998)
D (editorial modification)	R99 (Release 1999)
Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	REL-4 (Release 4)
	REL-5 (Release 5)

Reason for change:	⌘ Test frequencies have not been specified for operating band III. Terminology of current TS34.108 is inconsistent with TS34.121.
Summary of change:	⌘ Test frequencies are added for operation band III. Terms operating band I, II and III are added.
Consequences if not approved:	⌘ Test frequencies do not exist for operating band III. TS34.108 and TS34.121 are inconsistent.

Clauses affected:	⌘ 5.1
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="text"/>
	<input type="checkbox"/> Test specifications
	<input type="checkbox"/> O&M Specifications
Other comments:	⌘ <input type="text"/>

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under [ftp://ftp.3gpp.org/specs/](http://ftp.3gpp.org/specs/). For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

5 Reference Test Conditions

5.1 Test frequencies

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

To avoid interference with adjacent frequency bands the lowest test frequency (downlink and uplink) needs to be offset upwardly by at least 2,6 MHz since the channel's width is 5 MHz and the raster spacing is 200KHz. Similarly the highest test frequency (downlink and uplink) needs to be offset downwardly by at least 2,6 MHz.

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

5.1.1 FDD Mode Test frequencies

UTRA/FDD is designed to operate in ~~either one of two-three~~ paired bands [11]. ~~The second band is used in ITU Region 2.~~ The reference test frequencies for the common test environment for each of the ~~2 regions~~ 3 operating bands are defined in the following tables:

5.1.1.1 ~~Standard~~ 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 ~~ITU region 2~~ Operating Band II

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

5.1.1.3 FDD reference test frequencies for Operating Band III

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

CHANGE REQUEST

⌘ **TS 34.108 CR 106** ⌘ rev **-** ⌘ Current version: **3.7.1** ⌘

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘	Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD
Source:	⌘	Siemens
Work item code:	⌘	TEI
		Date: ⌘ 2002-05-07
Category:	⌘	F
		<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>Use <u>one</u> of the following categories:</p> <p>F (correction)</p> <p>A (corresponds to a correction in an earlier release)</p> <p>B (addition of feature),</p> <p>C (functional modification of feature)</p> <p>D (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP TR 21.900.</p> </div> <div style="width: 35%;"> <p>Use <u>one</u> of the following releases:</p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>REL-4 (Release 4)</p> <p>REL-5 (Release 5)</p> </div> </div>

Reason for change:	⌘	RADIO BEARER SETUP references for TDD needed
Summary of change:	⌘	<p>Added reference to clause in 34.108 for the 12.2 speech radio bearer in the specific message content of RADIO BEARER SETUP.</p> <p>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 and clause 6.10.3.4.1.4 for TDD</p>
Consequences if not approved:	⌘	Signalling radio bearer used in the signalling tests will not be representative for what will be used in real networks.

Clauses affected:	⌘	7.1.3.4									
Other specs affected:	⌘	<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"><input type="checkbox"/></td> <td style="width: 60%;">Other core specifications</td> <td style="width: 20%;">⌘</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Test specifications</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>O&M Specifications</td> <td></td> </tr> </table>	<input type="checkbox"/>	Other core specifications	⌘	<input checked="" type="checkbox"/>	Test specifications		<input type="checkbox"/>	O&M Specifications	
<input type="checkbox"/>	Other core specifications	⌘									
<input checked="" type="checkbox"/>	Test specifications										
<input type="checkbox"/>	O&M Specifications										
Other comments:	⌘	This CR is compatible with T1S-020156 Ericsson (already approved last T1SIG #22 meeting)									

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>

7.1.3.4 Specific message contents

7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP
UE Information Elements	
CN Information Elements	
RB Information Elements	
RAB information for setup	Default parameters for 12.2 kbps speech RAB + 3.4 kbps signalling radio bearer according to TS 34.108 clause 6.10.2.4.1.4 for FDD and clause 6.10.3.4.1.4 for TDD

7.1.3.4.2 RADIO BEARER SETUP COMPLETE

The RADIO BEARER SETUP COMPLETE message is sent from the UE to the System Simulator, using AM-RLC on the DCCH logical channel.

The default RADIO BEARER SETUP COMPLETE message is used .

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP COMPLETE
Use default	

<End of modified section>

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4

Error! No text of specified style in document.

CHANGE REQUEST

⌘ **TS 34.108 CR 107** ⌘ rev - ⌘ Current version: **3.7.1** ⌘
Spec Title: Common Test Environments for User Equipment (UE) ⌘
Conformance Testing

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ Inclusion of default message contents for Signalling in clause 9.1 for TDD mode

Source: ⌘ Siemens

Work item code: ⌘ TEI

Date: ⌘ 30/4/2002

Category: ⌘ **F**

Release: ⌘ R99

Use one of the following categories:

- F (correction)
- A (corresponds to a correction in an earlier release)
- B (addition of feature),
- C (functional modification of feature)
- D (editorial modification)

Detailed explanations of the above categories can be found in 3GPP [TR 21.900](#).

Use one of the following releases:

- 2 (GSM Phase 2)
- R96 (Release 1996)
- R97 (Release 1997)
- R98 (Release 1998)
- R99 (Release 1999)
- REL-4 (Release 4)
- REL-5 (Release 5)

Reason for change: ⌘ TDD default message contents are included for testing of UE properly

Summary of change: ⌘ Section 9.1 is splitted in two subsections, one for FDD and one for TDD

These Contents for default message contents have been identified as necessary to be specified separately for TDD mode in TS 34.108 for the correct behaviour of the tests in TS 34.123-1

- Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS)
- Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS)
- Contents of RADIO BEARER SETUP COMPLETE message:AM
- Contents of RADIO BEARER RELEASE COMPLETE message:AM
- Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH)

[Samsung's comment received:](#)

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

[RRC transaction identifier specifies as 0](#)

Consequences if not approved: ⌘ The test prose cannot test UE correctly.

Clauses affected:	⌘	Section 9.1	
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘
Other comments:	⌘	Last T1 SIG#22 meeting some CRs were approved for this section for FDD mode. These changes have been taken in account when needed. (T1S-020138r1, T1S-020154, T1S-020156, T1S-020158r1, T1S-020225)	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

9 Default Message Contents

9.1 Default Message Contents for Signalling

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.

9.1.1 Default Message Contents for Signalling (FDD)

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number CN domain identity NAS message	0 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. CS domain or PS domain 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 - RRC Message sequence number CN domain identity Intra Domain NAS Node Selector NAS message Measured results on RACH	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. CS domain or PS domain Set to the same octet string as in the IMSI stored in the USIM card Set according to that indicated in specific message content for each test case 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Conversational Call CS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Streaming Call CS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Interactive Call PS domain Set to the same octet string as in the IMSI stored in the USIM card Not Present

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS)

Information Element	Value/remark
Message Type	0
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
Integrity protection mode info	Not Present
Ciphering mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use one of the supported ciphering algorithms
- Ciphering activation time for DPCH	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Radio bearer downlink ciphering activation time info	Not Present
Activation time	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
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 list	Not Present
RAB information for setup list	
- RAB information for setup	
- RAB info	
- RAB identity	0000 0001B
- CN domain identity	CS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	11
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC

Information Element	Value/remark
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of uplink RLC logical channels	DCH
- Uplink transport channel type	2
- UL Transport channel identity	Not Present
- Logical channel identity	Configured
- CHOICE RLC size list	1
- MAC logical channel priority	
- Downlink RLC logical channel info	1
- Number of downlink RLC logical channels	DCH
- Downlink transport channel type	7
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	12
- RB identity	Not Present
- PDCP info	RLC info
- CHOICE RLC info type	TM RLC
- CHOICE Uplink RLC mode	Not Present
- Transmission RLC discard	FALSE
- Segmentation indication	TM RLC
- CHOICE Downlink RLC mode	FALSE
- Segmentation indication	
- RB mapping info	
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of uplink RLC logical channels	DCH
- Uplink transport channel type	3
- UL Transport channel identity	Not Present
- Logical channel identity	Configured
- CHOICE RLC size list	1
- MAC logical channel priority	
- Downlink RLC logical channel info	1
- Number of downlink RLC logical channels	DCH
- Downlink transport channel type	8
- 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	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	
- CHOICE CTFC Size	
- CTFC information	This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10
- CTFC	Reference to TS34.108 clause 6.10 Parameter Set
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Computed Gain Factors)
- Gain factor β_c	11 (below 64 kbps)
- Gain factor β_d	9 (higher than 64 kbps)
- Reference TFC ID	(Not Present if the above is set to Computed Gain Factors)
- CHOICE mode	15
- Reference TFC ID	(Not Present if the above is set to Computed Gain Factors)
- CHOICE mode	0
- CHOICE mode	FDD

Information Element	Value/remark
- Power offset P _{p-m}	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	3 DCHs
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	(This IE is repeated for TFI number.)
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type	DCH
- UL Transport channel identity	3
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	(This IE is repeated for TFI number.)
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE mode	FDD
- CPCH set ID	Not Present
- Added or Reconfigured TrCH information for DRAC	Not Present
list	
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	3 DCHs

Information Element	Value/remark
Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	6
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	1
- DCH quality target	
- BLER Quality value	-6.3
- Transparent mode signalling info	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	7
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	2
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	8
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	3
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
Frequency info	
- UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
- UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	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	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset $P_{Pilot-DPCH}$	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"

Information Element	Value/remark
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSST Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

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

Information Element	Value/remark
Message Type	0
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	SS provides the value of this IE, from its internal counter.
- RRC message sequence number	Not Present
Integrity protection 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 info	Start/restart
- Ciphering mode command	Use one of the supported ciphering algorithms
- Ciphering algorithm	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
Activation time	
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 0101B
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity	20
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	8
- 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
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200
- Missing PDU indicator	TRUE
- 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

Information Element	Value/remark
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	7
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	6
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport 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	
- CTFC information	This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10
- CTFC	Reference to TS34.108 clause 6.10 Parameter Set
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Computed Gain Factors)
- Gain factor β_c	11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors)
- Gain factor β_d	15 (Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset P _{p-m}	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	

Information Element	Value/remark
<ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	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
CHOICE mode <ul style="list-style-type: none"> - CPCH set ID - Added or Reconfigured TrCH information for 	FDD Not Present Not Present
DRAC list DL Transport channel information common for all transport channel	
<ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information 	Not Present FDD Explicit Normal Complete reconfiguration
<ul style="list-style-type: none"> - CTFC - Power offset information - CHOICE Gain Factors 	This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10 Reference to TS34.108 clause 6.10 Parameter Set Computed Gain Factors(The last TFC is set to Computed Gain Factors)
<ul style="list-style-type: none"> - Gain factor β_c 	11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors)
<ul style="list-style-type: none"> - Gain factor β_d 	15 (Not Present if the above is set to Computed Gain Factors)
<ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 	0 FDD Not Present Not Present
Deleted TrCH information list	
Added or Reconfigured TrCH information list	
<ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS 	DCH 6 Explicit
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size 	Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks 	(This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	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
<ul style="list-style-type: none"> - DCH quality target - BLER Quality value - Transparent mode signalling info 	-6.3 Not Present
Frequency info	
<ul style="list-style-type: none"> - UARFCN uplink(Nu) - UARFCN downlink(Nd) 	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	Uplink DPCH info
<ul style="list-style-type: none"> - Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay 	-6dB 1 frame 7 frames

Information Element	Value/remark
<ul style="list-style-type: none"> - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit 	Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
<ul style="list-style-type: none"> - Downlink PDSCH information 	Not Present
Downlink information common for all radio links	
<ul style="list-style-type: none"> - Downlink DPCH info common for all RL 	
<ul style="list-style-type: none"> - Timing indicator 	Maintain
<ul style="list-style-type: none"> - CFN-targetSFN frame offset 	Not Present
<ul style="list-style-type: none"> - Downlink DPCH power control information 	
<ul style="list-style-type: none"> - DPC mode 	0 (single)
<ul style="list-style-type: none"> - CHOICE mode 	FDD
<ul style="list-style-type: none"> - Power offset $P_{Pilot-DPDCH}$ 	0
<ul style="list-style-type: none"> - DL rate matching restriction information 	Not Present
<ul style="list-style-type: none"> - Spreading factor 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Fixed or Flexible Position 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - TFCI existence 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - CHOICE SF 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - DPCH compressed mode info 	Not Present
<ul style="list-style-type: none"> - TX Diversity mode 	None
<ul style="list-style-type: none"> - SSDT information 	Not Present
<ul style="list-style-type: none"> - Default DPCH Offset Value 	Not Present
Downlink information for each radio link list	
<ul style="list-style-type: none"> - Downlink information for each radio link 	
<ul style="list-style-type: none"> - Choice mode 	FDD
<ul style="list-style-type: none"> - Primary CPICH info 	
<ul style="list-style-type: none"> - Primary scrambling code 	Reference to clause 6.1 "Default settings (FDD)"
<ul style="list-style-type: none"> - PDSCH with SHO DCH info 	Not Present
<ul style="list-style-type: none"> - PDSCH code mapping 	Not Present
<ul style="list-style-type: none"> - Downlink DPCH info for each RL 	
<ul style="list-style-type: none"> - Primary CPICH usage for channel estimation 	Primary CPICH may be used
<ul style="list-style-type: none"> - DPCH frame offset 	0 chips
<ul style="list-style-type: none"> - Secondary CPICH info 	Not Present
<ul style="list-style-type: none"> - DL channelisation code 	
<ul style="list-style-type: none"> - Secondary scrambling code 	1
<ul style="list-style-type: none"> - Spreading factor 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Code number 	0
<ul style="list-style-type: none"> - Scrambling code change 	No change
<ul style="list-style-type: none"> - TPC combination index 	0
<ul style="list-style-type: none"> - SSDT Cell Identity 	Not Present
<ul style="list-style-type: none"> - Closed loop timing adjustment mode 	Not Present
<ul style="list-style-type: none"> - SCCPCH information for FACH 	Not Present

Contents of RADIO BEARER SETUP COMPLETE message: AM

<p>Message Type RRC transaction identifier</p> <p>Integrity check info</p> <ul style="list-style-type: none"> - Message authentication code - RRC Message sequence number <p>Uplink integrity protection activation info CHOICE mode START COUNT-C activation time</p> <p>Radio bearer uplink ciphering activation time info</p> <p>Uplink counter synchronisation info</p>	<p>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p>FDD</p> <p>Not checked</p> <p>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.</p> <p>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.</p> <p>Not checked</p>
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Contents of RADIO BEARER RELEASE COMPLETE message: AM

<p>Message Type RRC transaction identifier</p> <p>Integrity check info</p> <ul style="list-style-type: none"> - Message authentication code - RRC Message sequence number <p>Uplink integrity protection activation info CHOICE mode COUNT-C activation time</p> <p>Radio bearer uplink ciphering activation time info</p> <p>Uplink counter synchronisation info</p>	<p>Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p>FDD</p> <p>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.</p> <p>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.</p> <p>Not checked</p>
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Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark
Message Type Initial UE identity - CHOICE UE id type - IMSI (GSM-MAP) Establishment cause Protocol error indicator Measured results on RACH	Set to the UE's IMSI (GSM-MAP) or TMSI. To be checked against requirement if specified FALSE Not checked

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
Message Type U-RNTI - SRNC identity - S-RNTI RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number N308 Release cause Rplmn information	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B 0000 0000 0000 0000 0001B 0 The presence of this IE depends on 2 factors: (a) Ixit statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. (b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. 2 (for CELL_DCH state). Not Present (for UE in other connected mode states). Normal event Not Present

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

Information Element	Semantics description
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Error indication	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. The presence of this IE is dependent on Ixit statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. Checked to see if it's identical to the value of XMAC-I calculated by the SS Checked to see if it is present. This number is used by the SS to compute the XMAC-I Not checked

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

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST message
RRC transaction identifier	0
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	1
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	
- SDU discard mode	Timer based no explicit
- Timer discard	50
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	2
- 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	4
- Transmission window size	8
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200

Information Element	Value/remark
- Timer_poll	200
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200
- Missing PDU indicator	TRUE
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	3
- 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	4
- Transmission window size	8
- 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
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200

Information Element	Value/remark
- Missing PDU indicator	TRUE
- RB mapping info	2 RBMuxOptions
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of RLC logical channels	DCH
- Uplink transport channel type	5
- UL Transport channel identity	3
- Logical channel identity	Configured
- CHOICE RLC size list	3
- MAC logical channel priority	1
- Downlink RLC logical channel info	DCH
- Number of RLC logical channels	10
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	3
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- 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	1
- Number of RLC logical channels	FACH
- Downlink transport channel type	Not Present
- 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	4
- 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	4
- Transmission window size	8
- 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
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200
- Missing PDU indicator	TRUE
- RB mapping info	2 RBMuxOptions
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of RLC logical channels	DCH
- Uplink transport channel type	5
- UL Transport channel identity	4
- Logical channel identity	Configured
- CHOICE RLC size list	4
- MAC logical channel priority	4
- Downlink RLC logical channel info	

Information Element	Value/remark
<ul style="list-style-type: none"> - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list <ul style="list-style-type: none"> - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<ul style="list-style-type: none"> 1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List Reference to TS34.108 clause 6 Parameter Set 5 1 FACH Not Present Not Present 4
<p>UL Transport channel information for all transport channels</p>	
<ul style="list-style-type: none"> - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset Pp-m 	<ul style="list-style-type: none"> Not Present FDD Not Present Normal Addition 2bit CTFC This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10 Reference to TS34.108 clause 6.10 Parameter Set Computed Gain Factors(The last TFC is set to Computed Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors) 15 (Not Present if the above is set to Computed Gain Factors) 0 FDD Not Present
<p>Added or Reconfigured UL TrCH information</p>	
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TBs and TTI lists - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<ul style="list-style-type: none"> DCH 5 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set
<p>DL Transport channel information common for all transport channel</p>	
<ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters 	<ul style="list-style-type: none"> Not Present FDD Same as UL
<p>Added or Reconfigured DL TrCH information</p>	

Information Element	Value/remark
- 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	-6.3
- Transparent mode signalling info	Not Present
Frequency info	
- UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
- UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
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	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
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing Indication	Initialise
- CFN-targetSFN frame offset	0
- CHOICE mode	FDD
- Downlink DPCH power control information	
- DPC mode	0 (single)
- Power offset $P_{Pilot-DPCH}$	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSdT information	Not Present
- Default DPCH Offset Value	0
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSdT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

Contents of RRC CONNECTION SETUP COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message.
START list	Not checked
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
- Ciphering algorithm capability	
- UEA0	If ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- UEA1	If ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- Spare	FALSE
- Integrity protection algorithm capability	0000000000000010B (UIA1)
- UIA1	TRUE
- Spare	FALSE
Ciphering mode info	This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message.
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	Supported domain
UE system specific security capability	Not Checked

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info Radio bearer uplink ciphering activation time info	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. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked. 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 - RRC Message sequence number CN domain identity NAS message Measured results on RACH	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Checked to see if set to supported CN domain as specified in the IXIT statements Set according to that indicated in specific message content clause 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 Integrity check info - Message authentication code - RRC Message sequence number CN domain identity NAS message	0 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. CS domain or PS domain See Specific Message Content for each test case

Contents of INITIAL DIRECT TRANSFER message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>CN domain identity</u> <u>Intra Domain NAS Node Selector</u> <u>NAS message</u> <u>Measured results on RACH</u>	<p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>CS domain or PS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Set according to that indicated in specific message content for each test case</p> <p>Not checked</p>

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<p>CN identity</p> <p>Terminating Conversational Call</p> <p>CS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Not Present</p>

Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<p>CN identity</p> <p>Terminating Streaming Call</p> <p>CS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Not Present</p>

Contents of PAGING TYPE 1 message: TM (Packet in PS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<p>CN identity</p> <p>Terminating Interactive Call</p> <p>PS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Not Present</p>

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	0
<u>RRC transaction identifier</u>	
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.</u>
<u>- message authentication code</u>	<u>SS provides the value of this IE, from its internal counter.</u>
<u>- RRC message sequence number</u>	<u>Not Present</u>
<u>Integrity protection mode info</u>	<u>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.</u>
<u>Ciphering mode info</u>	<u>Start/restart</u>
<u>- Ciphering mode command</u>	<u>Use one of the supported ciphering algorithms</u>
<u>- Ciphering algorithm</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>- Ciphering activation time for DPCH</u>	<u>Not Present</u>
<u>- Radio bearer downlink ciphering activation time info</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>Activation time</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>New U-RNTI</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>Not Present</u>
<u>New DSCH-RNTI</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>URA identity</u>	<u>Not Present</u>
<u>Signalling RB information to setup list</u>	<u>Not Present</u>
<u>RAB information for setup list</u>	
<u>- RAB information for setup</u>	
<u>- RAB info</u>	
<u>- RAB identity</u>	<u>0000 0001B</u>
<u>- CN domain identity</u>	<u>CS domain</u>
<u>- NAS Synchronization Indicator</u>	<u>Not Present</u>
<u>- Re-establishment timer</u>	<u>UseT314</u>
<u>- RB information to setup</u>	
<u>- RB identity</u>	<u>10</u>
<u>- PDCP info</u>	<u>Not Present</u>
<u>- CHOICE RLC info type</u>	<u>RLC info</u>
<u>- CHOICE Uplink RLC mode</u>	<u>TM RLC</u>
<u>- Transmission RLC discard</u>	<u>Not Present</u>
<u>- Segmentation indication</u>	<u>FALSE</u>
<u>- CHOICE Downlink RLC mode</u>	<u>TM RLC</u>
<u>- Segmentation indication</u>	<u>FALSE</u>
<u>- RB mapping info</u>	
<u>- Information for each multiplexing option</u>	
<u>- RLC logical channel mapping indicator</u>	<u>Not Present</u>
<u>- Number of uplink RLC logical channels</u>	<u>1</u>
<u>- Uplink transport channel type</u>	<u>DCH</u>
<u>- UL Transport channel identity</u>	<u>1</u>
<u>- Logical channel identity</u>	<u>Not Present</u>
<u>- CHOICE RLC size list</u>	<u>Configured</u>
<u>- MAC logical channel priority</u>	<u>1</u>
<u>- Downlink RLC logical channel info</u>	
<u>- Number of downlink RLC logical channels</u>	<u>1</u>
<u>- Downlink transport channel type</u>	<u>DCH</u>
<u>- DL DCH Transport channel identity</u>	<u>6</u>
<u>- DL DSCH Transport channel identity</u>	<u>Not Present</u>
<u>- Logical channel identity</u>	<u>Not Present</u>
<u>- RB identity</u>	<u>11</u>
<u>- PDCP info</u>	<u>Not Present</u>
<u>- CHOICE RLC info type</u>	<u>RLC info</u>
<u>- CHOICE Uplink RLC mode</u>	<u>TM RLC</u>
<u>- Transmission RLC discard</u>	<u>Not Present</u>
<u>- Segmentation indication</u>	<u>FALSE</u>

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	7
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	12
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	3
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	8
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
RB information to be affected list	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.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	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

<u>Information Element</u>	<u>Value/remark</u>
- <u>Dynamic Transport format information</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>RLC Size</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Number of TBs and TTI List</u>	<u>Not Present</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>All</u>
- <u>CHOICE Logical Channel list</u>	
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>2</u>
- <u>TFS</u>	
- <u>CHOICE Transport channel type</u>	<u>Dedicated transport channels</u>
- <u>Dynamic Transport format information</u>	
- <u>RLC Size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of TBs and TTI List</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>CHOICE Logical Channel list</u>	<u>All</u>
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>3</u>
- <u>TFS</u>	
- <u>CHOICE Transport channel type</u>	<u>Dedicated transport channels</u>
- <u>Dynamic Transport format information</u>	
- <u>RLC Size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of TBs and TTI List</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>CHOICE Logical Channel list</u>	<u>All</u>
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>CHOICE mode</u>	<u>TDD (no data)</u>
<u>DL Transport channel information common for all transport channel</u>	
- <u>SCCPCH TFCS</u>	<u>Not Present</u>
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>CHOICE DL parameters</u>	<u>Same as UL</u>
<u>Deleted TrCH information list</u>	<u>Not Present</u>
<u>Added or Reconfigured TrCH information list</u>	<u>3 DCHs</u>
<u>Added or Reconfigured DL TrCH information</u>	
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL Transport channel identity</u>	<u>6</u>
- <u>CHOICE DL parameters</u>	<u>Same as UL</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL TrCH identity</u>	<u>1</u>
- <u>DCH quality target</u>	
- <u>BLER Quality value</u>	<u>-6.3</u>
- <u>Transparent mode signalling info</u>	<u>Not Present</u>
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL Transport channel identity</u>	<u>7</u>

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	2
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	8
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	3
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
Frequency info	
- 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	
- DPCCH power offset	-6dB
- PC Preamble	1 frame
- SRB delay	7 frames
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
CHOICE Mode	TDD (no data)
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD (no data)
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	
- Activation time	(256+CFN-(CFN mod 8 + 8))mod 256
- Duration	infinite
- Common timeslot info	
- 2nd interleaving mode	Reference to TS34.108
- TFCI coding	TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1
- Repetition length	Empty
- Downlink DPCH timeslots and codes	
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	
- First timeslot channelisation codes	
- First channelisation code	(i/SF) where i is the lowest numbered code

<u>Information Element</u>	<u>Value/remark</u>
- Last channelisation code	that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set..
- Bitmap	(j/SF) where j is the highest numbered code that is being assigned in the slot.
- CHOICE more timeslots	Bitmap of the codes that are being assigned in the slot.
- UL CCTrCH TPC List	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..
-SCCPCH information for FACH	Not Present
	Not Present

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	0
<u>RRC transaction identifier</u>	
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
<u>Integrity protection mode info</u>	Not Present
<u>Ciphering mode info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use one of the supported ciphering algorithms
- Ciphering activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Radio bearer downlink ciphering activation time info	Not Present
<u>Activation time</u>	(256+CFN-(CFN MOD 8 + 8))MOD 256
<u>New U-RNTI</u>	Not Present
<u>New C-RNTI</u>	Not Present
<u>New DSCH-RNTI</u>	Not Present

<u>Information Element</u>	<u>Value/remark</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>URA identity</u>	<u>Not Present</u>
<u>Signalling RB information to setup</u>	<u>Not Present</u>
<u>RAB information for setup</u>	
- <u>RAB info</u>	
- <u>RAB identity</u>	<u>0000 0101B</u>
- <u>CN domain identity</u>	<u>PS domain</u>
- <u>NAS Synchronization Indicator</u>	<u>Not Present</u>
- <u>Re-establishment timer</u>	<u>UseT314</u>
- <u>RB information to setup</u>	
- <u>RB identity</u>	<u>20</u>
- <u>PDCP info</u>	<u>Not Present</u>
- <u>CHOICE RLC info type</u>	<u>RLC info</u>
- <u>CHOICE Uplink RLC mode</u>	<u>AM RLC</u>
- <u>Transmission RLC discard</u>	
- <u>SDU discard mode</u>	<u>Max DAT retransmissions</u>
- <u>MAX_DAT</u>	<u>4</u>
- <u>Timer_MRW</u>	<u>100</u>
- <u>MaxMRW</u>	<u>4</u>
- <u>Transmission window size</u>	<u>8</u>
- <u>Timer_RST</u>	<u>500</u>
- <u>Max_RST</u>	<u>4</u>
- <u>Polling info</u>	
- <u>Timer_poll_prohibit</u>	<u>200</u>
- <u>Timer_poll</u>	<u>200</u>
- <u>Poll_SDU</u>	<u>1</u>
- <u>Last transmission PDU poll</u>	<u>TRUE</u>
- <u>Last retransmission PDU poll</u>	<u>TRUE</u>
- <u>Poll Windows</u>	<u>99</u>
- <u>Timer_poll_periodic</u>	<u>Not Present</u>
- <u>CHOICE Downlink RLC mode</u>	<u>AM RLC</u>
- <u>In-sequence delivery</u>	<u>TRUE</u>
- <u>Receiving window size</u>	<u>8</u>
- <u>Downlink RLC status info</u>	
- <u>Timer_status_prohibit</u>	<u>200</u>
- <u>Timer_EPC</u>	<u>200</u>
- <u>Missing PDU indicator</u>	<u>TRUE</u>
- <u>Timer_STATUS_periodic</u>	<u>Not Present</u>
- <u>RB mapping info</u>	
- <u>Information for each multiplexing option</u>	<u>2 RBMuxOptions</u>
- <u>RLC logical channel mapping indicator</u>	<u>Not Present</u>
- <u>Number of uplink RLC logical channels</u>	<u>1</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>1</u>
- <u>Logical channel identity</u>	<u>Not Present</u>
- <u>CHOICE RLC size list</u>	<u>Configured</u>
- <u>MAC logical channel priority</u>	<u>1</u>
- <u>Downlink RLC logical channel info</u>	
- <u>Number of downlink RLC logical channels</u>	<u>1</u>
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL DCH Transport channel identity</u>	<u>6</u>
- <u>DL DSCH Transport channel identity</u>	<u>Not Present</u>
- <u>Logical channel identity</u>	<u>Not Present</u>
- <u>RLC logical channel mapping indicator</u>	<u>Not Present</u>
- <u>Number of uplink RLC logical channels</u>	<u>1</u>
- <u>Uplink transport channel type</u>	<u>RACH</u>
- <u>UL Transport channel identity</u>	<u>Not Present</u>
- <u>Logical channel identity</u>	<u>7</u>
- <u>CHOICE RLC size list</u>	<u>Explicit List</u>
- <u>RLC size index</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>MAC logical channel priority</u>	<u>6</u>
- <u>Downlink RLC logical channel info</u>	
- <u>Number of downlink RLC logical channels</u>	<u>1</u>
- <u>Downlink transport channel type</u>	<u>FACH</u>
- <u>DL DCH Transport channel identity</u>	<u>Not Present</u>

<u>Information Element</u>	<u>Value/remark</u>
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
<u>RB information to be affected list</u>	Not Present
<u>Downlink counter synchronisation info</u>	Not Present
<u>UL Transport channel information for all transport channels</u>	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	
- TFCS ID	(This IE is repeated for TFC number.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCvalue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	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
<u>CHOICE mode</u>	TDD (no data)
<u>DL Transport channel information common for all transport channel</u>	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- CHOICE mode	TDD
- TPC step size	1 dB
- Default DPCH offset value	0
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	
- Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	6
- CHOICE DL parameters	Explicit
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number)
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	All

<u>Information Element</u>	<u>Value/remark</u>
- Semi-static Transport Format information	Reference to TS34.108 clause 6.10 Parameter Set
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target	-6.3
- BLER Quality value	Not Present
- Transparent mode signalling info	
<u>Frequency info</u>	
-CHOICE mode	TDD
- UARFCN (Nt)	Reference to clause 5.1 Test frequencies
<u>Maximum allowed UL TX power</u>	30 dBm
<u>CHOICE channel requirement</u>	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
- Uplink Timing Advance Control	Not Present
- UL CCTrCH List	
- TFCS Id	1
- Time info	
- Activation time	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Duration	Infinite
- Common timeslot info	
- 2 nd interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
type 1 and 3	
- First timeslot channelisation codes	Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set.
- 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.
<u>Downlink information common for all radio links</u>	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	TDD (no data)
- Default DPCH Offset Value	Not Present
<u>Downlink information for each radio link list</u>	
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	
- Activation time	$(256+CFN-(CFN \text{ mod } 8 + 8)) \text{ mod } 256$
- Duration	infinite
- Common timeslot info	
- 2 nd interleaving mode	Reference to TS34.108
- TFCI coding	TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1
- Repetition length	Empty
- Downlink DPCH timeslots and codes	
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst type 1 and 3	As defined in 3GPP TS 25.221
- First timeslot channelisation codes	
- First channelisation code	(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set..
- Last channelisation code	(j/SF) where j is the highest numbered code that is being assigned in the slot.
- Bitmap	Bitmap of the codes that are being assigned in the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether the requirements of TS34.108 clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot..
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present

Contents of RADIO BEARER SETUP COMPLETE message: AM

<p><u>Message Type</u> <u>RRC transaction identifier</u></p> <p><u>Integrity check info</u></p> <p><u>- Message authentication code</u></p> <p><u>- RRC Message sequence number</u></p> <p><u>Uplink integrity protection activation info</u> <u>CHOICE mode</u> <u>START</u> <u>COUNT-C activation time</u></p> <p><u>Radio bearer uplink ciphering activation time info</u></p> <p><u>Uplink counter synchronisation info</u></p>	<p>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p><u>TDD</u></p> <p>Not checked</p> <p>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.</p> <p>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.</p> <p>Not checked</p>
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Contents of RADIO BEARER RELEASE COMPLETE message: AM

<p><u>Message Type</u> <u>RRC transaction identifier</u></p> <p><u>Integrity check info</u></p> <p><u>- Message authentication code</u></p> <p><u>- RRC Message sequence number</u></p> <p><u>Uplink integrity protection activation info</u> <u>CHOICE mode</u> <u>COUNT-C activation time</u></p> <p><u>Radio bearer uplink ciphering activation time info</u></p> <p><u>Uplink counter synchronisation info</u></p>	<p>Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p><u>TDD</u></p> <p>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.</p> <p>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.</p> <p>Not checked</p>
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Contents of RRC CONNECTION REQUEST message: TM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Initial UE identity</u> <u>- CHOICE UE id type</u> <u>- IMSI (GSM-MAP)</u> <u>Establishment cause</u> <u>Protocol error indicator</u> <u>Measured results on RACH</u>	<u>Set to the UE's IMSI (GSM-MAP) or TMSI.</u> <u>To be checked against requirement if specified</u> <u>FALSE</u> <u>Not checked</u>

Contents of RRC CONNECTION RELEASE message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>U-RNTI</u> <u>- SRNC identity</u> <u>- S-RNTI</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>N308</u> <u>Release cause</u> <u>Rplmn information</u>	<u>This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.</u> <u>0000 0000 0001B</u> <u>0000 0000 0000 0000 0001B</u> <u>0</u> <u>The presence of this IE depends on 2 factors:</u> <u>(a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.</u> <u>(b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.</u> <u>SS calculates the value of MAC-I for this message and writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter. 2 (for CELL_DCH state). Not Present (for UE in other connected mode states).</u> <u>Normal event</u> <u>Not Present</u>

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

<u>Information Element</u>	<u>Semantics description</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Error indication</u>	<u>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.</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>Checked to see if it's identical to the value of XMAC-I calculated by the SS</u> <u>Checked to see if it is present. This number is used by the SS to compute the XMAC-I</u> <u>Not checked</u>

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>Initial UE identity</u>	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST message
<u>RRC transaction identifier</u>	0
<u>Activation time</u>	Not Present(Now)
<u>New U-RNTI</u>	
<u>- SRNC identity</u>	0000 0000 0001B
<u>- S-RNTI</u>	0000 0000 0000 0000 0001B
<u>New C-RNTI</u>	Not Present
<u>RRC State Indicator</u>	CELL_DCH
<u>UTRAN DRX cycle length coefficient</u>	9
<u>Capability update requirement</u>	Not Present
<u>- UE radio access FDD capability update requirement</u>	FALSE
<u>- UE radio access TDD capability update requirement</u>	TRUE
<u>- System specific capability update requirement list</u>	gsm

<u>Information Element</u>	<u>Value/remark</u>
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- 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	415
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present

<u>Information Element</u>	<u>Value/remark</u>
- Poll_SDU	<u>1</u>
- Last transmission PDU poll	<u>TRUE</u>
- Last retransmission PDU poll	<u>TRUE</u>
- Poll_Window	<u>99</u>
- Timer_poll_periodic	<u>Not Present</u>
- CHOICE Downlink RLC mode	<u>AM RLC</u>
- In-sequence delivery	<u>TRUE</u>
- Receiving window size	<u>128</u>
- Downlink RLC status info	
- Timer_status_prohibit	<u>200</u>
- Timer_EPC	<u>Not Present</u>
- Missing PDU indicator	<u>TRUE</u>
- Timer_STATUS_periodic	<u>Not Present</u>
- RB mapping info	
- Information for each multiplexing option	<u>2 RBMuxOptions</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>DCH</u>
- UL Transport channel identity	<u>5</u>
- Logical channel identity	<u>2</u>
- CHOICE RLC size list	<u>Configure</u>
- MAC logical channel priority	<u>2</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>DCH</u>
- DL DCH Transport channel identity	<u>10</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>RACH</u>
- UL Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
- CHOICE RLC size list	<u>Explicit List</u>
- RLC size index	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- MAC logical channel priority	<u>3</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>FACH</u>
- DL DCH Transport channel identity	<u>Not Present</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
Signalling RB information to setup	<u>(AM DCCH for NAS DT High priority)</u>
- RB identity	<u>Not Present</u>
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	<u>AM RLC</u>
- Transmission RLC discard	
- SDU discard mode	<u>No Discard</u>
- MAX_DAT	<u>415</u>
- Transmission window size	<u>128</u>
- Timer_RST	<u>500</u>
- Max_RST	<u>4</u>
- Polling info	
- Timer_poll_prohibit	<u>200</u>
- Timer_poll	<u>200</u>
- Poll_PDU	<u>Not present</u>

<u>Information Element</u>	<u>Value/remark</u>
- Poll_SDU	<u>1</u>
- Last transmission PDU poll	<u>TRUE</u>
- Last retransmission PDU poll	<u>TRUE</u>
- Poll_Windows	<u>99</u>
- Timer_poll_periodic	<u>Not Present</u>
- CHOICE Downlink RLC mode	<u>AM RLC</u>
- In-sequence delivery	<u>TRUE</u>
- Receiving window size	<u>128</u>
- Downlink RLC status info	
- Timer_status_prohibit	<u>200</u>
- Timer_EPC	<u>Not Present</u>
- Missing PDU indicator	<u>TRUE</u>
- Timer_STATUS_periodic	<u>Not Present</u>
- RB mapping info	
- Information for each multiplexing option	<u>2 RBMuxOptions</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>DCH</u>
- UL Transport channel identity	<u>5</u>
- Logical channel identity	<u>3</u>
- CHOICE RLC size list	<u>Configured</u>
- MAC logical channel priority	<u>3</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>DCH</u>
- DL DCH Transport channel identity	<u>10</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>RACH</u>
- UL Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
- CHOICE RLC size list	<u>Explicit List</u>
- RLC size index	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- MAC logical channel priority	<u>4</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>FACH</u>
- DL DCH Transport channel identity	<u>Not Present</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
Signalling RB information to setup	<u>(AM DCCH for NAS DT Low priority)</u>
- RB identity	<u>Not Present</u>
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	<u>AM RLC</u>
- Transmission RLC discard	
- SDU discard mode	<u>No discard</u>
- MAX_DAT	<u>415</u>
- Transmission window size	<u>128</u>
- Timer_RST	<u>500</u>
- Max_RST	<u>4</u>
- Polling info	
- Timer_poll_prohibit	<u>200</u>
- Timer_poll	<u>200</u>
- Poll_PDU	<u>Not present</u>

<u>Information Element</u>	<u>Value/remark</u>
- 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	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	
- TFCS ID	(This IE is repeated for TFC number.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCI 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	
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC size	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- Number of TBs and TTI lists	<u>(This IE is repeated for TFI number)</u>
- Transmission Time Interval	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- Number of Transport blocks	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- CHOICE Logical channel list	All
- Semi-static Transport Format information	
- Transmission time interval	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- Type of channel coding	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- Coding Rate	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- Rate matching attribute	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- CRC size	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
<u>DL Transport channel information common for all transport channel</u>	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- CHOICE DL parameters	Same as UL
<u>Added or Reconfigured TrCH information list</u>	
- Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL Transport channel identity	5
-DCH quality target	
- BLER Quality target	-6.3
<u>Frequency info</u>	Not Present
<u>Maximum allowed UL TX power</u>	Not Present
<u>HOICE channel requirement</u>	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
- 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	
- 2 nd interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst	As defined in 3GPP TS 25.221
<u>type 1 and 3</u>	
- 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.

<u>Information Element</u>	<u>Value/remark</u>
- Channelisation code	<u>(i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set.</u>
- CHOICE more timeslots	<u>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.</u>
<u>Downlink information common for all radio links</u>	
- Downlink DPCH info common for all RL	
- Timing indicator	<u>Maintain</u>
- CFN-targetSFN frame offset	<u>Not Present</u>
- Downlink DPCH power control information	
- DPC mode	<u>0 (single)</u>
- CHOICE mode	<u>TDD (no data)</u>
- Default DPCH Offset Value	<u>Not Present</u>
<u>Downlink information for each radio link list</u>	
- Downlink information for each radio link	
- Choice mode	<u>TDD</u>
- Primary CCPCH info	
- CHOICE SyncCase	<u>Sync Case 1</u>
- Timeslot	<u>PCCPCH timeslot</u>
- Cell parameters ID	<u>0</u>
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	<u>TDD</u>
- DL CCTrCH List	
- TFCS ID	<u>1</u>
- Time info	
- Activation time	<u>(256+CFN-(CFN mod 8 + 8))mod 256</u>
- Duration	<u>infinite</u>
- Common timeslot info	
- 2nd interleaving mode	<u>Reference to TS34.108</u>
- TFCI coding	<u>TRUE</u>
- Puncturing limit	<u>Reference to TS34.108 clause 6 Parameter set</u>
- Repetition period	<u>1</u>
- Repetition length	<u>Empty</u>
- Downlink DPCH timeslots and codes	
- Individual timeslot info	
- Timeslot number	<u>The number of a downlink timeslot that has unassigned codes.</u>
- TFCI existence	<u>TRUE</u>
- Midamble shift and burst type	
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	<u>Default</u>
- Midamble configuration burst type 1 and 3	<u>As defined in 3GPP TS 25.221</u>
- First timeslot channelisation codes	
- First channelisation code	<u>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set..</u>
- Last channelisation code	<u>(j/SF) where j is the highest numbered code that is being assigned in the slot.</u>
- Bitmap	<u>Bitmap of the codes that are being assigned in the slot.</u>
- CHOICE more timeslots	<u>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..</u>
- UL CCTrCH TPC List	<u>Not Present</u>
-SCCPCH information for FACH	<u>Not Present</u>

Contents of RRC CONNECTION SETUP COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> 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.
<u>START list</u>	Not checked
<u>UE radio access capability</u>	Not checked
<u>UE radio access capability extension</u>	Not checked
<u>UE system specific capability</u>	Not checked

Contents of SECURITY MODE COMMAND message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
<u>Integrity check info</u> - Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
<u>Security capability</u> - Ciphering algorithm capability	If ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- UEA0	If ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- UEA1	FALSE
- Spare	0000000000000010B (UIA1)
- Integrity protection algorithm capability	TRUE
- UIA1	FALSE
- Spare	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.
<u>Ciphering mode info</u> - Ciphering mode command	Start/restart
- Ciphering algorithm	Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message.
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
<u>Integrity protection mode info</u> - Integrity protection mode command	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Downlink integrity protection activation info	Start
- Integrity protection algorithm	Not Present
- Integrity protection initialisation number	UIA1
<u>CN domain identity</u>	SS selects an arbitrary 32 bits number for FRESH
<u>UE system specific security capability</u>	Supported domain
	Not Checked

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Uplink integrity protection activation info</u> <u>Radio bearer uplink ciphering activation time info</u>	<p>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.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p>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.</p>

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
<u>Message Type</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>CN domain identity</u> <u>NAS message</u> <u>Measured results on RACH</u>	<p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Checked to see if set to supported CN domain as specified in the IXIT statements</p> <p>Set according to that indicated in specific message content clause</p> <p>Not checked</p>

CHANGE REQUEST

⌘ **TS 34.108 CR 108** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment TDD (3.84 Mcps and 1.28 Mcps)		
Source:	⌘ Siemens		
Work item code:	⌘ TEI, LCRTDD	Date:	⌘ 2002-05-07
Category:	⌘ F Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Release:	⌘ Rel-4 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ RADIO BEARER SETUP references for TDD needed
Summary of change:	⌘ Added reference to clause in 34.108 for the 12.2 speech radio bearer in the specific message content of RADIO BEARER 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
Consequences if not approved:	⌘ Signalling radio bearer used in the signalling tests will not be representative for what will be used in real networks.

Clauses affected:	⌘ 7.1.3.4
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> <input checked="" type="checkbox"/> Test specifications ⌘ <input type="checkbox"/> <input type="checkbox"/> O&M Specifications ⌘ <input type="checkbox"/>
Other comments:	⌘ This CR is compatible with T1S-020156 Ericsson (already approved last T1SIG #22 meeting)

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>

7.1.3.4 Specific message contents

7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP
UE Information Elements	
CN Information Elements	
RB Information Elements	
RAB information for setup	Default parameters for 12.2 kbps speech RAB + 3.4 kbps signalling radio bearer according to TS 34.108 clause 6.10.2.4.1.4 for FDD, clause 6.10.3.4.1.4 for 3.84 Mcps TDD and 6.11.5.4.1.4 for 1.28 Mcps TDD

7.1.3.4.2 RADIO BEARER SETUP COMPLETE

The RADIO BEARER SETUP COMPLETE message is sent from the UE to the System Simulator, using AM-RLC on the DCCH logical channel.

The default RADIO BEARER SETUP COMPLETE message is used .

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP COMPLETE
Use default	

<End of modified section>

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4

Error! No text of specified style in document.

CHANGE REQUEST

⌘ **34.108 CR 109** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ CR to 34.108 R4 ; Correction to clause 7.3.3.4 RADIO BEARER SETUP message		
Source:	⌘ MCI		
Work item code:	⌘ TEI	Date:	⌘ 17 May, 2002
Category:	⌘ A Use <i>one</i> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Release:	⌘ REL-4 Use <i>one</i> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ To avoid unnecessary cell update procedure during measurement.
Summary of change:	⌘ A new C-RNTI value is added into RADIO BEARER SETUP message to transit to CELL_FACH state from CELL_DCH state.
Consequences if not approved:	⌘ Test condition is not matched for measurement of Rx Spurious Emission.

Clauses affected:	⌘ 7.3.3.4
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments:	⌘

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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

3GPP TSG- T1/SIG Meeting #23
Lund, Sweden, 21st/24th May 2002

T1-020292

3GPP TSG- T1/SIG Meeting #23
Lund, Sweden, 21st-23rd May 2002

T1S-020292

3GPP TSG-RAN WG1 Meeting #25
Paris, France, 09-12th April 2002

Tdoc R1-02-0643

CR-Form-v5							
CHANGE REQUEST							
⌘	34.108 CR 110	⌘ rev	-	⌘	Current version:	4.2.1	⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘	Change of the range of rate matching attribute for DL:3.4 kbps SRBs for DCCH			
Source:	⌘	NTT DoCoMo, Inc.			
Work item code:	⌘	TEI	Date:	⌘	2002-04-12
Category:	⌘	A	Release:	⌘	Rel-4
		Use <u>one</u> of the following categories:			Use <u>one</u> of the following releases:
		F (correction)			2 (GSM Phase 2)
		A (corresponds to a correction in an earlier release)			R96 (Release 1996)
		B (addition of feature),			R97 (Release 1997)
		C (functional modification of feature)			R98 (Release 1998)
		D (editorial modification)			R99 (Release 1999)
		Detailed explanations of the above categories can			REL-4 (Release 4)
		be found in 3GPP TR 21.900 .			REL-5 (Release 5)

Reason for change:	⌘	SCH interference which has not been taken into account might degrade DCCH quality by about 1 dB.
Summary of change:	⌘	Change the upper limit of rate matching attribute for DL: 3.4kbps SRBs for DCCH from 185 to 230
Consequences if not approved:	⌘	DCCH quality cannot be guaranteed when SCH hits DCCH part in some environment.

Clauses affected:	⌘	6.10.2.4.1.2.2.1.1		
Other specs Affected:	⌘	<input type="checkbox"/> Other core specifications	⌘	
		<input type="checkbox"/> Test specifications		
		<input type="checkbox"/> O&M Specifications		
Other comments:	⌘			

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.

- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.10.2.4.1.2.2 Downlink

6.10.2.4.1.2.2.1 Transport channel parameters

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

Higher layer	RAB/signalling RB	SRB#1	SRB#2	SRB#3	SRB#4
	User of Radio Bearer	RRC	RRC	NAS_DT High prio	NAS_DT 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 header, bit	8	16	16	16
MAC	MAC header, bit	4	4	4	4
	MAC multiplexing	4 logical channel multiplexing			
Layer 1	TrCH type	DCH			
	TB sizes, bit	148 (alt 0, 148) (note)			
	TFS	TF0, bits	0x148 (alt 1x0) (note)		
		TF1, bits	1x148		
	TTI, ms	40			
	Coding type	CC 1/3			
	CRC, bit	16			
	Max number of bits/TTI before rate matching	516			
RM attribute	155- 230 485				
NOTE: alternative parameters enable the measurement "transport channel BLER" in the UE.					

CHANGE REQUEST

⌘ **34.108 CR 111** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘	Introduction of radio bearer configuration "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".		
Source:	⌘	RAN WG1, RAN WG2		
Work item code:	⌘	TEI		
		Date: ⌘ 2002-03-26		
Category:	⌘	A		
		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. </td> <td style="width: 50%; vertical-align: top;"> <i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5) </td> </tr> </table>	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)			

Reason for change:	⌘	Combination of multimode AMR speech RAB and 64 CS RAB is not part of the conformance and testing specifications.
Summary of change:	⌘	Addition of a new reference RAB for UE conformance testing: 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.
Consequences if not approved:	⌘	Support of the proposed reference RAB can not be guaranteed for Rel'4 UE.

Clauses affected:	⌘	6.10.2.2 and 6.10.2.4.1												
Other specs Affected:	⌘	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><input type="checkbox"/></td> <td>Other core specifications</td> <td style="width: 30%;"></td> <td style="width: 30%;">⌘</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Test specifications</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>O&M Specifications</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/>	Other core specifications		⌘	<input type="checkbox"/>	Test specifications			<input type="checkbox"/>	O&M Specifications		
<input type="checkbox"/>	Other core specifications		⌘											
<input type="checkbox"/>	Test specifications													
<input type="checkbox"/>	O&M Specifications													
Other comments:	⌘													

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under [ftp://ftp.3gpp.org/specs/](http://ftp.3gpp.org/specs/). For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>**6.10.2.2 Combinations of RABs and Signalling RBs**

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

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

Combinations on DPCH

- 1) Stand-alone UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 2) Stand-alone UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 3) Stand-alone UL:13.6 DL:13.6 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 4a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5) Conversational / speech / UL:10.2 DL:10.2 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5a) Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7) Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 7a) Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 8) Conversational / speech / UL:6.7 DL:6.7 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 9) Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 10) Conversational / speech / UL:5.15 DL:5.15 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 11) Conversational / speech / UL:4.75 DL:4.75 kbps / CS RAB
+ UL:1.7 DL:1.7 kbps SRBs for DCCH.
- 12) Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 13) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 14) Conversational / unknown / UL:32 DL:32 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 15) Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 16) Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 17) Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 18) Streaming / unknown / UL:0 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 20) Streaming / unknown / UL:0 DL:128 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 21) Streaming / unknown / UL:128 DL:0 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 22) Streaming / unknown / UL:0 DL:384 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Interactive or background / UL:64 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 25) Interactive or background / UL:32 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 26) Interactive or background / UL:64 DL: 64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 27) Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 28) Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 29) Interactive or background / UL:64 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 30) Interactive or background / UL:144 DL:144 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 31) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 32) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 33) Interactive or background / UL:128 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 34) Interactive or background / UL:384 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

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

- 42) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 43) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 44) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:128 DL:2048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 45) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:57.6 DL:57.6 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 46) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:0 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 47) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 48) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Streaming / unknown / UL:0 DL:384 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or Background / UL:16 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:64 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 53) Conversational / unknown / UL:64 DL:64 kbps / CS RAB
+ Interactive or background / UL:128 DL:128 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 54) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
+ Streaming / unknown / UL:0 DL:64 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

- 55) Interactive or /background / UL:64 kbps DL:128 kbps / PS RAB
+ Streaming / unknown / UL:0 DL:128 kbps / CS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 56) Interactive or background / UL:8 DL:8 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 57) Interactive or background / UL:64 DL:64 kbps / PS RAB
+ Interactive or background / UL:64 DL:64 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 58) Streaming / unknown / UL:16 DL:64 kbps / PS RAB
+ Interactive or background / UL:8 DL:8 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

Combinations on DSCH and DPCH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 2) Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 3) Interactive or background / UL:64 DL:2048 kbps / PS RAB
+ UL:3.4 DL: 3.4 kbps SRBs for DCCH.
- 4) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:256 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 5) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:384 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 6) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
+ Interactive or background / UL:64 DL:2048 kbps / PS RAB
+ UL:3.4 DL:3.4 kbps SRBs for DCCH.

Combinations on SCCPCH

- 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.

<End of modified section>

<Start of modified section>

[6.10.2.4.1.49a](#) [Conversational / speech / UL:\(12.2 7.95 5.9 4.75\) DL:\(12.2 7.95 5.9 4.75\) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH](#)

[6.10.2.4.1.49a.1](#) [Uplink](#)

[6.10.2.4.1.49a.1.1](#) [Transport channel parameters](#)

[6.10.2.4.1.49a.1.1.1](#) [Transport channel parameters for Conversational / speech / UL: \(12.2 7.95 5.9 4.75\) kbps / CS RAB](#)

[See clause 6.10.2.4.1. 4a.1.1.1.](#)

[6.10.2.4.1.49a.1.1.2](#) [Transport channel parameters for Conversational / unknown / UL:64 kbps / CS RAB](#)

[See clause 6.10.2.4.1.13.1.1.1.](#)

[6.10.2.4.1.49a.1.1.3](#) [Transport channel parameters for UL:3.4 kbps SRBs for DCCH](#)

[See clause 6.10.2.4.1.2.1.1.1.](#)

[6.10.2.4.1.49a.1.1.4](#) [TFCS](#)

TFCS size	24
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 64 kbps RAB, DCCH)=(TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,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.1.2](#) [Physical channel parameters](#)

DPCH Uplink	Min spreading factor	16
	Max number of DPDCH data bits/frame	2400
	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 Downlink	DTX position		Flexible
	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

<End of modified section>

CHANGE REQUEST

⌘ **34.108 CR 112** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Correction of Puncturing Limit for several RAB configurations		
Source:	⌘ Ericsson		
Work item code:	⌘ TEI	Date:	⌘ 2002-04-04
Category:	⌘ A	Release:	⌘ REL-4
	<i>Use <u>one</u> of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use <u>one</u> of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ The Puncturing limit of some RAB combinations is set in such a way that the possibility for UTRAN to do Transport Channel balancing is reduced.
Summary of change:	⌘ The Puncturing limit of the following RAB combinations is corrected: 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH. PL is changed from 0.96 to 0.88. 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH. PL is changed from from 0.96 to 0.88. 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 PL is changed from 0.88 to 0.76. 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. PL is changed from 1 to 0.88. 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 PL is changed from 0.88 to 0.72. 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 PL is changed from from 0.80 to 0.64.
Consequences if not approved:	⌘ Transport channel balancing of the RAB combinations is impaired.

Clauses affected:	⌘	6.10.2.4.1									
Other specs affected:	⌘	<table border="1"><tr><td><input type="checkbox"/></td><td>Other core specifications</td><td>⌘</td></tr><tr><td><input type="checkbox"/></td><td>Test specifications</td><td></td></tr><tr><td><input type="checkbox"/></td><td>O&M Specifications</td><td></td></tr></table>	<input type="checkbox"/>	Other core specifications	⌘	<input type="checkbox"/>	Test specifications		<input type="checkbox"/>	O&M Specifications	
<input type="checkbox"/>	Other core specifications	⌘									
<input type="checkbox"/>	Test specifications										
<input type="checkbox"/>	O&M Specifications										
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>

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/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	32000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	4236	
	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 size	10
TFCS	(32 kbps RAB, DCCH)= (TF0,TF0), (TF1,TF0), (TF2,TF0), (TF3,TF0), (TF4,TF0), (TF0,TF1), (TF1,TF1), (TF2,TF1), (TF3,TF1), (TF4,TF1)

6.10.2.4.1.23c.1.2 Physical channel parameters

DPCH Uplink	Min spreading factor	32
	Max number of DPDCH data bits/radio frame	1200
	Puncturing Limit	0.96 0.88

6.10.2.4.1.23c.2 Downlink

6.10.2.4.1.23c.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	32000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	4236	
RM attribute	135-175		

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23c.2.1.3 TFCS

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

6.10.2.4.1.23c.2.2 Physical channel parameters

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

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

6.10.2.4.1.23d.1 Uplink

6.10.2.4.1.23d.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23d.1.1.3 TFCS

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

6.10.2.4.1.23d.1.2 Physical channel parameters

DPCH Uplink	Min spreading factor	32
	Max number of DPDCH data bits/radio frame	1200
	Puncturing Limit	0.96 0.88

6.10.2.4.1.23d.2 Downlink

6.10.2.4.1.23d.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23d.2.1.3 TFCS

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

6.10.2.4.1.23d.2.2 Physical channel parameters

DPCH Downlink	DTX position	Flexible
	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

<End of modified section>

<Start of modified section>

6.10.2.4.1.38d Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.38d.1 Uplink

6.10.2.4.1.38d.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.1.1.1.

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

Higher Layer	RAB/Signalling RB	RAB	RAB	
RLC	Logical channel type	DTCH	DTCH	
	RLC mode	AM	AM	
	Payload sizes, bit	320	320	
	Max data rate, bps	64000	64000	
	AMD PDU header, bit	16	16	
MAC	MAC header, bit	4	4	
	MAC multiplexing	2 logical channel multiplexing		
Layer 1	TrCH type	DCH		
	TB sizes, bit	340		
	TFS	TF0, bits	0x340	
		TF1, bits	1x340	
		TF2, bits	2x340	
		TF3, bits	3x340	
		TF4, bits	4x340	
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	4284		
Uplink: Max number of bits/radio frame before rate matching	2142			
RM attribute	130-170			

6.10.2.4.1.38d.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,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 Uplink	Min spreading factor	16
	Max number of DPDCH data bits/radio frame	2400
	Puncturing Limit	0.88 0.76

6.10.2.4.1.38d.2 Downlink

6.10.2.4.1.38d.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.2.1.1.

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

Higher Layer	RAB/Signalling RB		RAB	
RLC	Logical channel type	DTCH	DTCH	
	RLC mode	AM	AM	
	Payload sizes, bit	320	320	
	Max data rate, bps	64000	64000	
	AMD PDU header, bit	16	16	
MAC	MAC header, bit	4	4	
	MAC multiplexing	2 logical channel multiplexing		
Layer 1	TrCH type	DCH		
	TB sizes, bit	340		
	TFS	0x340	0x340	
		1x340	1x340	
		2x340	2x340	
		3x340	3x340	
		4x340	4x340	
	TTI, ms	20		
	Coding type	TC		
	CRC, bit	16		
	Max number of bits/TTI after channel coding	4284		
RM attribute	130-170			

6.10.2.4.1.38d.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,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 Downlink	DTX position		Flexible
	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

<End of modified section>

<Start of modified section>

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

6.10.2.4.1.38g.1 Uplink

6.10.2.4.1.38g.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.1.1.1.

6.10.2.4.1.38g.1.1.2 Transport channel parameters for Interactive or background / UL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.1.1.1.

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.38g.1.1.4 TFCS

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

6.10.2.4.1.38g.1.2 Physical channel parameters

DPCH Uplink	Min spreading factor	32
	Max number of DPDCH data bits/radio frame	1200
	Puncturing Limit	4.0 0.88

6.10.2.4.1.38g.2 Downlink

6.10.2.4.1.38g.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4a.2.1.1.

6.10.2.4.1.38g.2.1.2 Transport channel parameters for Interactive or background / DL:16 kbps / PS RAB

See clause 6.10.2.4.1.23b.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.1.38g.2.1.4 TFCS

TFCS size	36
TFCS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, 16 kbps RAB, DCCH)= (TF0,TF0,TF0,TF0,TF0), (TF1,TF0,TF0,TF0,TF0), (TF2,TF1,TF0,TF0,TF0), (TF3,TF2,TF0,TF0,TF0), (TF4,TF3,TF0,TF0,TF0), (TF5,TF4,TF1,TF0,TF0), (TF0,TF0,TF0,TF1,TF0), (TF1,TF0,TF0,TF1,TF0), (TF2,TF1,TF0,TF1,TF0), (TF3,TF2,TF0,TF1,TF0), (TF4,TF3,TF0,TF1,TF0), (TF5,TF4,TF1,TF1,TF0), (TF0,TF0,TF0,TF2,TF0), (TF1,TF0,TF0,TF2,TF0), (TF2,TF1,TF0,TF2,TF0), (TF3,TF2,TF0,TF2,TF0), (TF4,TF3,TF0,TF2,TF0), (TF5,TF4,TF1,TF2,TF0), (TF0,TF0,TF0,TF0,TF1), (TF1,TF0,TF0,TF0,TF1), (TF2,TF1,TF0,TF0,TF1), (TF3,TF2,TF0,TF0,TF1), (TF4,TF3,TF0,TF0,TF1), (TF5,TF4,TF1,TF0,TF1), (TF0,TF0,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 Downlink	DTX position		Flexible
	Spreading factor		64
	DPCCH	Number of TFCl 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

<End of modified section>

<Start of modified section>

6.10.2.4.1.51a Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.51a.1 Uplink

6.10.2.4.1.51a.1.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.2.1.1.

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

See clause 6.10.2.4.1.37.1.1.1.

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.51a.1.1.4 TFCS

TFCS size	8
TFCS	(64 kbps Conversational RAB, 8 kbps I/B RAB, DCCH)= (TF0, TF0, TF0), (TF0, TF1, TF0), (TF0, 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 Uplink	Min spreading factor	16
	Max number of DPDCH data bits/radio frame	2400
	Puncturing Limit	0.88 0.72

6.10.2.4.1.51a.2 Downlink

6.10.2.4.1.51a.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.13.2.1.1.

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

See clause 6.10.2.4.1.38b.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.51a.2.1.4 TFCS

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

6.10.2.4.1.51a.2.2 Physical channel parameters

DPCH Downlink	DTX position		Flexible
	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/Signalling RB	RAB	
RLC	Logical channel type	DTCH	
	RLC mode	AM	
	Payload sizes, bit	320	
	Max data rate, bps	16000	
	AMD PDU header, bit	16	
MAC	MAC header, bit	0	
	MAC multiplexing	N/A	
Layer 1	TrCH type	DCH	
	TB sizes, bit	336	
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms	40	
	Coding type	TC	
	CRC, bit	16	
	Max number of bits/TTI after channel coding	2124	
	Uplink: Max number of bits/radio frame before rate matching	531	
RM attribute	135-175		

6.10.2.4.1.51b.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 Uplink	Min spreading factor	16
	Max number of DPDCH data bits/radio frame	2400
	Puncturing Limit	0.80 0.64

6.10.2.4.1.51b.2 Downlink

See clause 6.10.2.4.1.51.2.

<End of modified section>

CR-Form-v4
CHANGE REQUEST
⌘ 34.108 CR 113 ⌘ ev - ⌘ Current version: 4.2.1 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ CR for 34.108 Rel4 Test USIM		
Source:	⌘ NTTDoCoMo		
Work item code:	⌘ TEI	Date:	⌘ 2002-04-02
Category:	⌘ A	Release:	⌘ REL-4
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	

Reason for change:	⌘ Reference document number is not correct.		
Summary of change:	⌘ "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 TS34.123-1 ." Modified to; "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 ."		
Consequences if not approved:	⌘ Error reference information will remain.		

Clauses affected:	⌘ 8.1		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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~~TS34.123-1~~.

CHANGE REQUEST

⌘ **TS 34.108 CR 114** ⌘ rev - ⌘ Current version: **4.2.1** ⌘
Spec Title: Common Test Environments for User Equipment (UE) ⌘
 Conformance Testing

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Corrections to SIBs 3.84 Mcps TDD and 1.28 Mcps TDD		
Source:	⌘ Siemens		
Work item code:	⌘ TEI, LCRTDD	Date:	⌘ 20 March 2002
Category:	⌘ F	Release:	⌘ REL-4
	<i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change:	⌘ SIBs are updated according with the updates in the core specifications.
Summary of change:	⌘ In clause 6.1 missing IEs are added. Contents of Scheduling Block 1 (3.84 Mcps TDD) <ul style="list-style-type: none"> - Scheduling information already included in Master Information Block is deleted. - Some values are corrected. System Information Block type 3, 4, 5, 6, 11 and 12 updated: <ul style="list-style-type: none"> - Cell selection_and_reselection_quality_-measure is not used for TDD - Qrxlevmin corrected to -103 dBm - Editorial corrections in general - Some IEs are missing. - Block SCTD indicator is corrected for LCRTDD. - AC-to-ASC mapping is not Present in SIB 6 <p style="margin-left: 20px;">From T1S-020206 (Ericsson CR): In SIB 12, the serving cell is not included, since it has already been included in SIB 11.</p>
Consequences if	⌘ The test proeses in TS 34.123-1 cannot test UE correctly.

not approved:

Clauses affected:	⌘			
Other specs affected:	⌘	<input type="checkbox"/> Other core specifications	⌘	
		<input type="checkbox"/> Test specifications		
		<input type="checkbox"/> O&M Specifications		
Other comments:	⌘	Affects Rel 99 and Rel '4 UE test cases		
		References: T1S-010361r1, T1S-020021r3		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6 Reference System Configurations

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

6.1 Simulated network environments

The UE will eventually have to operate in either single mode networks (FDD or TDD) and dual mode networks (FDD+TDD).

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

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

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

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

- MIB value tag	1
- Supported PLMN types	GSM-MAP
- PLMN type	
- PLMN identity	Set to the same Mobile Country Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MCC digit	Set to the same Mobile Network Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MNC digit	Not Present
- ANSI-41 Core Network information	
- References to other system information blocks and scheduling blocks	
- References to other system information blocks	
- Scheduling information	Cell Value Tag
- CHOICE Value tag	1
- Cell Value tag	
- Scheduling	
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	1
- SIB_POS offset info	Not Present – use default
- SIB type	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	11
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 1
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	11
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 2
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	10
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 3

- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	26
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 4
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	19
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB type	System Information Type 5

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

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	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	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	29
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	13
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	18

- SIB_POS offset info - SIB type SIBs only	Not Present System Information Type 18
---	---

Contents of Scheduling Block 1 (3.84 Mcps TDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	128
- SIB_POS	26
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 5
- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	3 4
- SEG_COUNT	128
- SIB_REP	4 23
- SIB_POS	
- SIB_POS offset info	
<u>- SIB_OFF</u>	<u>4</u>
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	
- CHOICE Value tag	<u>Not Present</u> Cell Value tag
- Cell Value tag	4
- SEG_COUNT	1
- SIB_REP	16 128
- SIB_POS	2 22
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 7
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2 3
- SIB_REP	64 128
- SIB_POS	58 29
- SIB_POS offset info	
<u>- SIB_OFF</u>	<u>2</u>
- 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	2 3
- SIB_REP	64 128
- SIB_POS	13 106
- SIB_POS offset info	
<u>- SIB_OFF</u>	<u>2</u>
- 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	6 1

- SIB_REP	64 128
- SIB_POS	74
- SIB_POS offset info	<u>Not Present</u>
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	8
- SIB_OFF	4
- SIB_OFF	2
- SIB type SIBs only	System Information Type 18 6

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

- CN common GSM-MAP NAS system information	
- GSM-MAP NAS system information	00 80H
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00H
- CN domain specific DRX cycle length coefficient	7
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	1E 01H
- CN domain specific DRX cycle length coefficient	7
- UE Timers and constants in idle mode	
- T300	4000 milliseconds
- N300	7
- T312	10 seconds
- N312	200
- 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	20
- T314	20 seconds
- T315	30 seconds
- N315	200
- T316	50 seconds
- T317	1800 seconds

Contents of System Information Block type 2

- URA identity list	<i>Only 1 URA identity broadcasted</i>
- URA identity	0000 0000 0000 0001B

Contents of System Information Block type 3 (FDD)

- SIB4 indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not Present
- Cell selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not Present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- Slimit,SearchRAT	Not Present
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	33dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- SIB4 Indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not present
- Cell selection_and_reselection_quality_measure	(no data)CPICH RSCP
- 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	-103-115 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping Info	Not present
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- S _{limit,SearchRAT}	Not Present
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	33dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Access Class Barred	Not barred
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not Present
- Cell_selection_and_reselection_quality_measure	(no data) CPICH-RSCP
- 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,SsearchRAT	Not Present
- Qrxlevmin	- 103 44 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor β_c	11
- Gain factor β_d	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B

- ASC Setting	FDD
- CHOICE mode	0 (ASC#2)
- Available signature Start Index	7 (ASC#2)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#3)
- Available signature Start Index	7 (ASC#3)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#4)
- Available signature Start Index	7 (ASC#4)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#5)
- Available signature Start Index	7 (ASC#5)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#6)
- Available signature Start Index	7 (ASC#6)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- ASC Setting	FDD
- CHOICE mode	0 (ASC#7)
- Available signature Start Index	7 (ASC#7)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	2
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible

- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	Complete reconfiguration
- CHOICE TFCS representation	
- TFCS complete information	4 bit
- CHOICE CTFC Size	0
- CTFC information	Not Present
- Power offset information	1
- CTFC information	Not Present
- Power offset information	2
- CTFC information	Not Present
- Power offset information	3
- CTFC information	Not Present
- Power offset information	4
- CTFC information	Not Present
- Power offset information	5
- CTFC information	Not Present
- Power offset information	6
- CTFC information	Not Present
- Power offset information	8
- CTFC information	Not Present
- Power offset information	10
- CTFC information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- 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	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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- UE positioning related parameters	Not Present /REL-4/
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- Block 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	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- PNBSCH allocation	Not Present /REL-4/
- Transport Channel Identity	15
- RACH TFS	
- 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 ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set

- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- 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#2)
- 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#3)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- 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 nd interleaving mode	Frame

<ul style="list-style-type: none"> - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - CHOICE TDD option <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - CHOICE Burst Type - Midamble Allocation Mode - Midamble configuration burst type 1 and 	<p>Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present (empty)</p>
<p>3</p> <ul style="list-style-type: none"> - Midamble Shift - CHOICE <i>TDD option</i> <ul style="list-style-type: none"> - no data - Code List - Channelisation Code <p>- TFCS</p> <p><u>-CHOICE TFCI signalling</u></p> <ul style="list-style-type: none"> - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete-addition information - CHOICE CTFC Size <ul style="list-style-type: none"> - CTFC information - Power offset information <p>- FACH/PCH information</p> <p>- TFS</p> <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode <ul style="list-style-type: none"> - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size <p>- Transport Channel Identity</p> <p>- CTCH indicator</p> <p>- TFS</p> <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information <ul style="list-style-type: none"> - RLC Size - Number of TB and TTI List - Number of Transport blocks - CHOICE Mode <ul style="list-style-type: none"> - Transmission Time Interval - CHOICE Logical Channel List - Semi-static Transport Format information <ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size <p>- Transport Channel Identity</p> <p>- CTCH indicator</p> <p>- TFS</p> <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information 	<p>3.84 Mcps TDD 1 Reference clause 6.10 Parameter Set</p> <p>3.84 Mcps TDD Type 1 Default midamble 4</p> <p>Not Present 3.84 Mcps TDD</p> <p>(This IE is repeated for Code number for PCH and FACH) (This IE is repeated for TFC number for PCH and FACH.)</p> <p><u>Complete reconfiguration</u>Addition</p> <p>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</p> <p>(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 Reference clause 6.10 Parameter Set ALL</p> <p>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 (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 Reference clause 6.10 Parameter Set ALL</p> <p>Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set 13 (for FACH) FALSE (FACH) Common transport channels (This IE is repeated for TFI number.)</p>

- 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 FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	Reference clause 6.10 Parameter Set
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- PICH info	
- CHOICE <i>mode</i>	TDD
- Channelisation code	16/16
- <u>CHOICE TDD option</u>	<u>3.84 Mcps TDD</u>
- Timeslot number	0
- <u>Midamble shift and burst type</u>	
- CHOICE Burst Type	Type 1
- Midamble Shift	0
- <u>Channelisation code</u>	<u>16/16</u>
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

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

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- no data	
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- TSTD indicator	FALSE
- Cell parameters ID	Not Present
- Block SCTD STD 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	"11111111"
- UL Target SIR	10 dB
- Power Ramping Step	3 dB
- Max SYNC_UL Transmissions	8
- Mmax	32
- PRACH definition	
- Timeslot number	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Timeslot number	1
- PRACH Channelisation Code List	
- Channelisation Code List	
- Channelisation Code	(8/1)
- Midamble Shift and burst type	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Midamble Allocation Mode	Default midamble
- Midamble configuration	8
- Midamble Shift	Not present
- FPACH info	
- Timeslot number	6
- Channelisation code	(16/16)
- Midamble Shift and burst type	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Midamble Allocation Mode	Common Midamble
- Midamble configuration	8
- Midamble Shift	Not present
- WT	4
- PNBSCH allocation	Not Present /REL-4/
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	Configured ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	

- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	
- 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 nd interleaving mode	Frame
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	1
- Repetition length	0

- Individual timeslot info	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	0
- Timeslot number	Reference clause 6.10 Parameter Set
- TFCI existence	
- Midamble Shift and burst type	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	Default midamble
- Midamble Allocation Mode	4
- Midamble configuration	Not Present
- Midamble Shift	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	Reference clause 6.10 Parameter Set
- Modulation	Reference clause 6.10 Parameter Set
- SS-TPC Symbols	Reference clause 6.10 Parameter Set
- Code List	
- Channelisation Code	Reference clause 6.10 Parameter Set
- TFCS	Reference clause 6.10 Parameter Set
- CHOICE TFCS signalling	
- Normal	
- TFCS Field 1 information	Addition
- CHOICE TFCS representation	
- TFCS addition information	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CHOICE CTFC Size	Reference clause 6.10 Parameter Set
- CTFC information	Not Present
- Power offset information	
- FACH/PCH information	
- Transport Channel Identity	12 (for PCH)
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	13 (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- CTCH indicator	FALSE
- PICH info	
- CHOICE <i>mode</i>	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Timeslot number	0
- Midamble shift and burst type	
- Midamble Allocation Mode	Default midamble
- Midamble configuration	8
- Midamble Shift	Not Present
- Channelisation code list	
- Channelisation code	(16/1)
- Channelisation code	(16/2)

Timeslot number	0
CHOICE TDD option	1.28 Mcps TDD
Midamble shift and burst type	0
CHOICE TDD option	1.28 Mcps TDD
Midamble Allocation Mode	Default midamble
Midamble configuration	8
Midamble Shift	Not Present
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

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

- PICH power offset	-5 dB
- CHOICE Mode	FDD
- AICH power offset	5 dB
- Primary CCPCH info	
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	11
- Gain factor βd	15

- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping	Not Present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	2
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system info	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used

- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- CTFC information	6
- Power offset information	Not Present
- CTFC information	8
- Power offset information	Not Present
- CTFC information	10
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240 (PCCH)
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- 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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- CHOICE SyncCase	Sync Case 2
- Timeslot	0
- Cell parameters ID	Not Present
- Block 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	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number)
- 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
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- RACH TFCS
- PRACH partitioning
- Access Service Class
- ASC Settings
- CHOICE mode
- [CHOICE TDD option](#)
- Available Channelisation codes indices
- CHOICE subchannel size
- Available Subchannels
- ASC Settings
- CHOICE mode
- [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
- Persistence scaling factors
- Access Service Class
- Persistence scaling factor
- Persistence scaling factor
- Persistence scaling factor
- Persistence scaling factor
- Persistence scaling factor
- AC-to-ASC mapping
- ~~AC-to-ASC mapping table~~
- ~~AC-to-ASC mapping~~
- ~~AC-to-ASC mapping~~
- ~~AC-to-ASC mapping~~
- ~~AC-to-ASC mapping~~
- ~~AC-to-ASC mapping~~
- ~~AC-to-ASC mapping~~
- ~~AC-to-ASC mapping~~
- CHOICE mode
- Secondary CCPCH system information

- [Configured](#)**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
Not present
- (ASC#0)
TDD
[3.84 Mcps TDD /REL-4/](#)
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
[3.84 Mcps TDD /REL-4/](#)
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](#)
- ~~6 (AC0-9)~~
~~5 (AC10)~~
~~4 (AC11)~~
~~3 (AC12)~~
~~2 (AC13)~~
~~1 (AC14)~~
~~0 (AC15)~~
TDD (no data)

- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE <i>mode</i>	TDD
- Offset	0
- Common timeslot info	
- 2 nd interleaving mode	Not Present (MD "Frame")
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	Not Present (MD "1")
- Repetition length	Not present
- Individual timeslot info	
- <u>CHOICE TDD option</u>	<u>3.84 Mcps TDD</u> /REL-4/
- Timeslot number	1
- TFCI existence	Reference clause 6.10 Parameter Set
- Midamble Shift and burst type	
- CHOICE Burst Type	Type 1
- Midamble Allocation Mode	Default midamble
- Midamble configuration burst type 1 and	4
3	
- Midamble Shift	Not Present
- Code List	
- Channelisation Code	Reference clause 6.10 Parameter Set
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	
- TFCS <u>complete reconfiguration</u> addition	<u>Complete reconfiguration</u> Addition
information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CTFC information	Reference clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	13 (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)

- 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	T FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- CTCH indicator	FALSE
- PICH info	
- CHOICE <i>mode</i>	TDD
- <u>CHOICE TDD option</u>	<u>3.84 Mcps TDD</u>
- Channelisation code	16/16
- Timeslot number	0
- <u>Midamble shift and burst type</u>	
- CHOICE Burst Type	Type 1
- Midamble Shift	0
- <u>Channelisation code</u>	<u>16/16</u>
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

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

- 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 SCTDSTD 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	"11111111"
- UL Target SIR	10 dB
- Power Ramping Step	3 dB
- Max SYNC_UL Transmissions	8
- Mmax	32
- PRACH definition	
- Timeslot number	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Timeslot number	1
- PRACH Channelisation Code List	
- Channelisation Code List	
- Channelisation Code	(8/1)
- Midamble Shift and burst type	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Midamble Allocation Mode	Default midamble
- Midamble configuration	8
- Midamble Shift	Not present
- FPACH info	
- Timeslot number	6
- Channelisation code	(16/16)
- Midamble Shift and burst type	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Midamble Allocation Mode	Common Midamble
- Midamble configuration	8
- Midamble Shift	Not present
- WT	4
- PNBSCH allocation	Not Present /REL-4/
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	

- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"111111111"
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	Not Present
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 nd interleaving mode	Frame
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	1
- Repetition length	0

- Individual timeslot info	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	0
- Timeslot number	Reference clause 6.10 Parameter Set
- TFCI existence	
- Midamble Shift and burst type	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	Default midamble
- Midamble Allocation Mode	4
- Midamble configuration	Not Present
- Midamble Shift	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	Reference clause 6.10 Parameter Set
- Modulation	Reference clause 6.10 Parameter Set
- SS-TPC Symbols	Reference clause 6.10 Parameter Set
- Code List	
- Channelisation Code	Reference clause 6.10 Parameter Set
- TFCS	Reference clause 6.10 Parameter Set
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration Addition
- TFCS complete reconfiguration addition information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CTFC information	Reference clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- Transport Channel Identity	12 (for PCH)
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	13 (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- CTCH indicator	FALSE
- PICH info	
- CHOICE <i>mode</i>	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Timeslot number	0
- Midamble shift and burst type	
- Midamble Allocation Mode	Default midamble
- Midamble configuration	8
- Midamble Shift	Not Present
- Channelisation code list	
- Channelisation code	(16/1)
- Channelisation code	(16/2)

Timeslot number	0
CHOICE TDD option	1.28 Mcps TDD
Midamble shift and burst type	0
CHOICE TDD option	1.28 Mcps TDD
Midamble Allocation Mode	Default midamble
Midamble configuration	8
Midamble Shift	Not Present
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

Contents of System Information Block type 7 (FDD)

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

Contents of System Information Block type 7 (TDD)

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

- SIB12 indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	33 dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement quantity	CPICH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	FALSE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode	Event trigger
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	2 kinds

- Intra-frequency event identity	1a
- Triggering condition 1	Not Present
- Triggering condition 2	Active set cells and monitored set cells
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3
- Replacement activation threshold	Not Present
- 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
- Intra-frequency event identity	1b
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	Not Present
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- SIB 12 Indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	(no data) CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE False
- CHOICE mode	TDD
- Primary CCPCH info	
- Cell parameters ID	Reference clause 6.1 Default settings for cell
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- CHOICE TDD option	
- 3.84 Mcps TDD	

- Timeslot number	Not Present
- Burst type	Not Present
- 1.28 Mcps TDD	
- Timeslot number	Not Present
- Cell Selection and Re-selection info	Not Present
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- CHOICE mode	TDD
- Measurement quantity list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH	
Reporting	
-SFN-SFN observed time difference	No report
- CHOICE mode	TDD
- Reporting quantity list	
- Reporting quantity	No report
- Maximum number of reported cells on RACH	No report
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference	No report
reporting indicator	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger	Event trigger
Reporting Mode	
-CHOICE report criteria	
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	
- Intra-frequency event identity	1g
- Triggering condition1	Not Present
- Triggering condition2	Not Present
- Reporting Range	Not Present
- cells forbidden to affect reporting range	Not Present
- W(optional in case of 1a,1b)	Not Present
- Hysteresis	0.0
- Threshold used frequency	Not Present
- Reporting deactivation threshold	3 Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4 Infinity
- Reporting interval	40000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	32

- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause "Default settings for cell No.1 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset _{s,n}	0 dB
- Qoffset _{2s,n}	Not Present
- Maximum allowed UL TX power	33dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement quantity	CPICH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	TRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present

- Measurement reporting mode	Acknowledged mode RLC
- Measurement Report Transfer Mode	Event trigger
- Periodic Reporting/Event Trigger Reporting Mode	
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	1a
- Intra-frequency event identity	Not Present
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	5dB
- Reporting Range	Not Present
- Cells forbidden to affect reporting range	1.0
- W	0.0
- Hysteresis	Not Present
- Threshold Used Frequency	3
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	640
- Time to trigger	4
- Amount of reporting	0
- Reporting interval	
- Reporting cell status	
- CHOICE reported cell	Report cell Within active set and/or monitored set cells on used frequency
	3
- Maximum number of reported cells	1b
- Intra-frequency event identity	Active set cells and monitored set cells
- Triggering condition 1	Not Present
- Triggering condition 2	5dB
- Reporting Range	Not Present
- Cells forbidden to affect Reporting range	1.0
- W	0.0
- Hysteresis	Not Present
- Threshold Used Frequency	3
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	640
- Time to trigger	4
- Amount of reporting	4000
- Reporting interval	
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
	3
- Maximum number of reported cells	Not Present
- Inter-frequency measurement system information	
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	(no data) CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	10
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present

Read SFN Indicator	TRUE
CHOICE mode	False
Primary CCPCH info	TDD
Cell parameters ID	Reference clause 6.1 Default settings for cell
Primary CCPCH TX power	Not Present
Timeslot list	Not Present
CHOICE TDD option	
3.84 Mcps TDD	
Timeslot number	Not Present
Burst type	Not Present
1.28 Mcps TDD	
Timeslot number	Not Present
Cell Selection and Re-selection info	Not Present
Cell for measurement	Not present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- CHOICE mode	TDD
- Measurement list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH Reporting	
-SFN-SFN observed time difference	No report
- CHOICE mode	TDD
- Reporting quantity list	
- Reporting quantity	No report
- Maximum number of reported cells on RACH	No report
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference	No report
reporting indicator	
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger	Event trigger
Reporting Mode	
CHOICE report criteria	
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	
- Intra-frequency event identity	1g
- Triggering condition1	Not Present
- Triggering condition2	Not Present
- Reporting Range	Not Present
- cells forbidden to affect reporting range	Not Present
- W(optional in case of 1a,1b)	Not Present
- Hysteresis	0_0
- Threshold used frequency	Not Present
- Reporting deactivation threshold	3 Not Present
- Replacement activation threshold	Not Present

- Time to trigger	640
- Amount of reporting	4 Infinity
- Reporting interval	40000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	32
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

CR-Form-v4

CHANGE REQUEST

⌘ **34.108 CR 115** ⌘ ev **-** ⌘ Current version: **4.2.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ References for TDD about Clarification of bit rate of Interactive/Background PS RAB		
Source:	⌘ Siemens		
Work item code:	⌘ TEI	Date:	⌘ 2002-03-20
Category:	⌘ A	Release:	⌘ Rel 4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)	R96	(GSM Phase 2)
	A (corresponds to a correction in an earlier release)	R97	(Release 1996)
	B (addition of feature),	R98	(Release 1997)
	C (functional modification of feature)	R99	(Release 1998)
	D (editorial modification)	REL-4	(Release 1999)
	Detailed explanations of the above categories can	REL-4	(Release 4)
	be found in 3GPP TR 21.900 .	REL-5	(Release 5)

Reason for change:	⌘ TDD RABs are included in section 6.10.3 in TS 34.108		
Summary of change:	⌘ Reference to section 6.10.3 for TDD mode is included		
Consequences if not approved:	⌘		

Clauses affected:	⌘ 6.10.1		
Other specs affected:	⌘ <input type="checkbox"/> Other core specifications	⌘	
	<input type="checkbox"/> Test specifications		
	<input type="checkbox"/> O&M Specifications		
Other comments:	⌘		

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

6.10 Reference Radio Bearer configurations used in Radio Bearer interoperability testing

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

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

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

6.10.1 QoS Architecture and RAB attributes

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

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

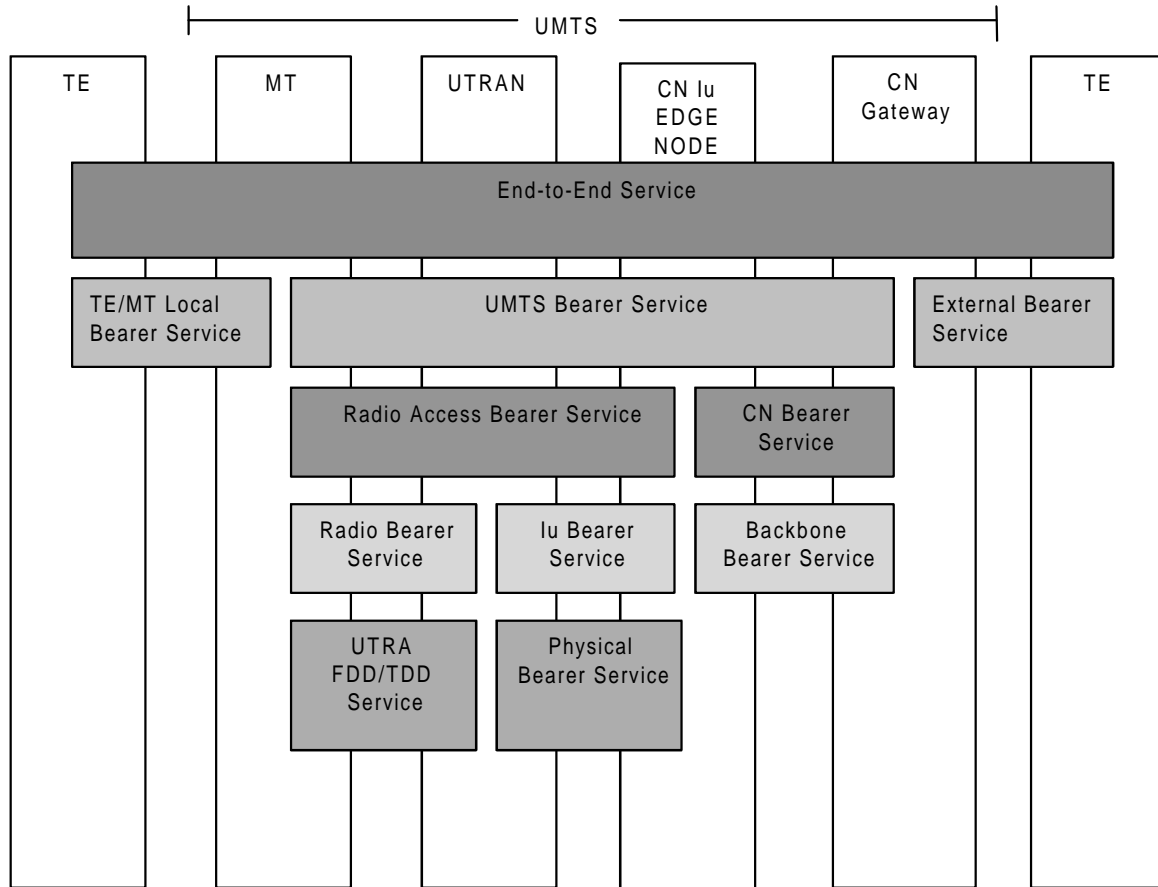


Figure 6.10.1.1: UMTS QoS Architecture

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

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

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

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

Table 6.10.1.1: Traffic classes

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

3GPP TSG- T1 Meeting #15
Lund, Sweden, 21st, 24th May 2002

T1-020298

3GPP TSG- T1 SIG Meeting #23
Lund, Sweden, 21st – 23rd May 2002

T1S-020246r2

CR-Form-v6.1

CHANGE REQUEST

⌘ **TS 34.108 CR 116** ⌘ rev - ⌘ Current version: **4.2.1** ⌘
Spec Title: Common Test Environments for User Equipment (UE) ⌘
Conformance Testing

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title:	⌘ Corrections to default message in clause 9 of TS 34.108		
Source:	⌘ MCI		
Work item code:	⌘ TEI	Date:	⌘ 22 nd May 2002
Category:	⌘ A	Release:	⌘ REL-4
Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:	
F (correction)		2 (GSM Phase 2)	
A (corresponds to a correction in an earlier release)		R96 (Release 1996)	
B (addition of feature),		R97 (Release 1997)	
C (functional modification of feature)		R98 (Release 1998)	
D (editorial modification)		R99 (Release 1999)	
Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		REL-4 (Release 4)	
		REL-5 (Release 5)	

Reason for change: ⌘	<ol style="list-style-type: none">1. Transfer Annex A of TS 34.123-1 and all its corrections which were presented in T1/SIG #22 meeting into clause 9 of TS 34.108.2. Merge all corrections to clause 9 of TS 34.108 that were presented in T1/SIG #22 meeting in this CR.3. When IE “RRC state indicator” is set to “URA_PCH” or “CELL_PCH”, IE “UTRAN DRX cycle length coefficient” has to be included.4. Editorial. <p>From T1S-020293 and T1S-020299,</p> <p>The corrections to default message included in this CR are proposed for the following reasons:</p> <ul style="list-style-type: none">• To align with the latest revision of the core specifications• To include currently missing indication of not present IEs in the default configurations.• To introduce information that is typically needed in real network configurations• To introduce the 13.6 kbps signalling radio bearer in RRC connection setup procedure as was agreed at T1/SIG#22 (T1S-020156). Current generic setup procedures use the 3.4 kbps signalling radio bearer. The 13.6 kbps signalling radio bearer would represent a more likely configuration to be used in real network as it provides for better signalling performance, e.g. a faster call setup.• To avoid transmission of redundant information (efficiency)
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Revision 2:

During transition to CELL_FACH, UE should be configured the physical resources immediately.

Summary of change: ☼ Revision 2 corrections:

Editorial correction based on cross-checking with T1S-020293r1 and T1S-020299 colour coded in Orange/Red

Activation time for transition to CELL_FACH are set to "Not Present".

For configuration of CTFC information, reference to clause 6.10.2.4 of TS 34.108 are provided in the case of FDD messages and clause 6.10.3.4 of TS 34.108 are provided in the case of TDD messages.

New corrections

1. The IE "UTRAN DRX cycle length coefficient" is set to 3 in URA UPDATE message in because the IE "RRC State Indicator" is set "URA_PCH".

From T1S-020294,

Changes to messages in clause 9.1:

1. Contents of DOWNLINK DIRECT TRANSFER message: AM
 - a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".
2. INITIAL DIRECT TRANSFER message: AM
 - a. Clarified remark for CN domain identity IE (to be checked against IXIT statement).
 - b. Details for Intra Domain NAS Node Selector added
 - c. Added missing "START" IE (marked as not checked)
3. RADIO BEARER SETUP message: AM or UM (Speech in CS)
 - a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".
 - b. Changed "Ciphering mode info" to "Not present" and remove the related IEs. Normal RB SETUP should not have Integrity protection mode info or ciphering info.
 - c. The SRB should be reconfigured from 13.6 kbps, which is the default configuration to 3.4 kbps, when setting up the speech RAB.
 - d. MAC logical channel priority for speech DCHs should be set to 7 The priority for speech should be lower than for signalling. Though the priority for speech should be higher than for packet RAB. So the packet RAB priority value is changed from 6 to 8.
 - e. The need for IE "Frequency info" is MD and the IE not need be included if the frequency to be used is the same as the currently used one. It should

be removed to avoid transmission of redundant information (efficiency)

- f. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed

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

Same changes as for "RADIO BEARER SETUP message: AM or UM (Speech in CS)" applies. In addition following changes are made:

- a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".
 - b. Changed "Ciphering mode info" to "Not present" and remove the related IEs. Normal RB SETUP should not have Integrity protection mode info or ciphering info.
 - c. The setting of IE "SDU discard" is changed to "No discard" for UM and AM signalling radio bearers. The use of SDU discard is not suitable for signaling radio bearers because neither RRC nor NAS is designed to cope with loss of messages. For SRB 1 (UM) this implies that IE SDU discard mode is removed, while for SRB 2, 3, 4 this implies that Timer_MRW and MaxMRW are removed. Furthermore, IE "MAX_DAT" has been changed from 4 to 15. The value of 4 is considered too low and may result in release of the connection in case of temporarily bad radio conditions. The value of 15 is considered to be more suitable for real network configurations.
 - d. The value of IE "Transmission window size" and "Receiving window size" changed from 8 to 128. In real network configurations the round trip time is expected to be in the order of 100 ms or larger. In such networks a window size of 8 could mean that the protocol is stalled most of the time. A higher window size is needed to prevent this. Moreover, the value of 128 is aligned with the L2 for L2 testing (34.123-1 clause 7.2.3)
 - e. Within IE Polling info, IE "Poll-PDU" and IE "Timer_poll_periodic" are missing. The IEs have been added to the table, with status set to "Not present"
 - f. The IE "Timer_EPC" is set to "Not present". The EPC function can not be used for RBs with more than logical channel per transport channel, since this is not covered by the core specification. Moreover, the function is currently not verified by any test case in 34.123-1. Considering this, it does not make sense to include this IE in the default messages
 - g. Within IE Downlink RLC status info, IE "Timer_STATUS_periodic" is missing. The IE has been added to the table, with status set to "Not present"
 - h. The SRB should be reconfigured from 13.6 kbps, which is the default configuration to 3.4 kbps, when setting up the speech RAB.
 - i. Change MAC logical channel priority for DCH multiplexing option to 8.
 - j. Change re-establishment timer to T315
 - k. Add PDCP info with contents
5. RADIO BEARER SETUP COMPLETE message: AM
- a. The condition a) for including IE "COUNT-C activation time is rephrased

to clarify that the IE is needed if the reconfiguration command message contained the IE "Ciphering activation time for DPCH" and the first RB mapped onto RLC TM for a CN domain is established/ the last RB(s) mapped to RLC-TM for a CN domain is released.

6. RRC CONNECTION RELEASE message: UM

- a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".

7. RRC CONNECTION REQUEST message: TM

Following changes from T1S-020158r1 agreed at T1/SIG#22 have been included

- a. For IE "Initial UE identity" the ID type is changed from IMSI (GSM MAP) to TMSI and LAI (GSM MAP) since this is considered to be the normal case.
- b. For IE "Measured results on RACH" the remark is changed from "Not checked" into "To be checked against requirement if specified" (See corresponding change to SIB type 11, as introduced in a corresponding CR covering SIB 11/ 12. The reason for adding this information is that UTRAN will typically need CPICH Ec/N0 of the serving cell to determine the initial power setting for the UE)

8. RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) – clause 9.1

New changes not covered by T1S-020156 and T1S-020158r1 are (high-ligthed in blue in the CR):

- a. Changed RRC transaction identifier value from "0" to "Arbitrarily selects an integer between 0 and 3".
- b. Within IE "UL DCH TFCS" the CHOICE Gain Factors, the text inbetween brackets erroneously stated that the last TFC is also set to Computed rather than Signalled Gain Factors. This error has been corrected.
- c. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed
- d. IE "Default DPCH frame offset" is changed from 0 to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. The reason for the change is that the IE can have any value and that the use of value 0 does not include a proper cover that the UE verifies that the two IEs have corresponding values

2. SECURITY MODE COMMAND message: AM

- a. The supported algorithms in Security capability must match the capabilities signalled by the UE. Note that more than one algorithm can be supported. Affects IEs UEA0, UEA1 and Ciphering algorithm.
- b. The setting of the spare bits for the supported security algorithms are clarified (not a single BOOLEAN but multiple bits in ASN.1)
- c. CN domain identity changed from 'Supported domain' to 'CS or PS'

3. UPLINK DIRECT TRANSFER message: AM

- a. Remark for CN domain identity IE changed. Checked to see if set to a CN domain for which a signalling connection exists (instead of against the

IXIT statement).

Changes to messages in clause 9.2:

4. RADIO BEARER SETUP message: AM or UM

Same changes as to "RADIO BEARER SETUP message: AM or UM" in clause 9.1.

5. RRC connection setup message: UM

Same changes as to "RRC connection setup message: UM (Transition to CELL_DCH)" in clause 9.1

6. SECURITY MODE COMMAND message: AM

Same changes as to "SECURITY MODE COMMAND message: AM" in clause 9.1.

From T1S-020299,

Changes to Annex A.1 (Default messages for FDD):

1. ACTIVE SET UPDATE message: AM

a. Change IE "Maximum allowed UL Txpower" to Not present as typically an ACTIVE SET UPDATE would not cause a change to Maximum allowed UL Txpower (the currently configured maximum allowed UL TX power remains applicable). Therefore, the IE should be removed to avoid transmission of redundant information (efficiency).

2. MEASUREMENT CONTROL message: AM

a. Change of IE "Measurement reporting/Event trigger reporting Mode" due to an inconsistency between this IE and what is actually defined in the MEASUREMENT CONTROL (this IE is set to "Event triggered" while the measurement defined in the message is a periodical one)
b. "Intra-frequency measurement quantity" changed to Not present as there is no use defining Measurement quantity when periodical measurement is used (Measurement quantity defines what shall be the input to check whether a triggering condition has been fulfilled or not).

3. PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

a. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values

4. PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

a. The condition a) for including IE "COUNT-C activation time is rephrased to clarify that the IE is needed if the reconfiguration command message contained the IE "Ciphering activation time for DPCH" and the first RB mapped onto RLC TM for a CN domain is established/ the last RB(s) mapped to RLC-TM for a CN domain is released

5. RADIO BEARER SETUP message: AM or UM

a. Normal RB SETUP should not have Integrity protection mode info and ciphering info; so remove Ciphering mode info, since current group is not valid.

b. MAC logical channel priority for speech DCHs should be set to 7 The priority for speech should be lower than for signalling. Though the priority for speech should be higher than for packet RAB. So the packet RAB priority value is changed from 6 to 8.

c. The need for IE "Frequency info" is MD and the IE not need be included if

- the frequency to be used is the same as the currently used one. It should be removed to avoid transmission of redundant information (efficiency)
- d. Change re-establishment timer to T315
 - e. Add PDCP info with contents for PS case
 - f. Make Maximum allowed UL Tx power absent for A5 and A6 case (should use currently configured), the UE shall apply the value included in the IE contained in System Information Block type 3. This SIB includes exactly the same value. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
 - g. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed
 - h. For condition A4, A7, A8 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values.
 - i. Changed explanation of A1, A2, A7 and A8 to be consistent with explanation of other conditions (i.e. to <state> from <state>).
6. RADIO BEARER RECONFIGURATION message: AM or UM
 - a. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values
 7. RADIO BEARER RELEASE message: AM or UM
 - a. "Added or Reconfigured UL TrCh information" and " Added of Reconfiguration DL TrCH information" should be included for A1, A2, A3, and A5, in order to reconfigure the SRB from 3.4 kbps to 13.6 kbps
 - b. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values
 8. RRC CONNECTION SETUP message: UM (Transition to CELL_FACH)
 - a. Value of "RRC transaction Identifier" changed from 0 to "Arbitrarily selects an integer between 0 and 3"
 - b. If the IE "RB identity" is absent, the UE shall apply the default value of 1 for the first IE "Signalling RB information to setup" and increase this default by 1 for each occurrence of IE "Signalling RB information to setup". Thus, absence of the IE will have exactly the same result. IE "RB identity" should be removed to avoid transmission of redundant information (efficiency)
 - c. Both for UL & DL, IE "Added or Reconfigured TrCH information list" shall be included in the message even though it is not needed when transitioning to CELL_FACH. For several parameters a reference to the general clause 6.10 of 34.108 specifying the default RABs was included. Since the UE is directed to CELL_FACH/ a configuration on SCCPCH, it is unclear which

configuration in 6.10 applies for these parameters. There are two options, as indicated below. The proposal is to apply option A, which is suggested in TS 25.331

A) UTRAN includes a configuration that adds little to the encoded message size e.g. a DCH with a single zero size transport format. At a later stage, UTRAN may either remove or reconfigure this configuration

B) UTRAN includes a basic configuration for use in CELL_DCH i.e. the TrCH configuration to support signalling. When moving to CELL_DCH, UTRAN can use this as basis and modify it depending on how the traffic channels are mapped

- d. IE "Transparent mode signalling info" has been removed from 25.331 (related to the move of the TM TrCH to REL-4)
 - e. The need for IE "Frequency info" is MD and the IE not need be included if the frequency to be used is the same as the currently used one. It should be removed to avoid transmission of redundant information (efficiency)
 - f. If the IE max_allowed_UL_TX_power is absent, the UE shall apply the value included in the IE contained in System Information Block type 3. This SIB includes exactly the same value. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
 - g. RRC specifies that when entering CELL_FACH, the UE shall ignore the IE "Primary CPICH info" if received. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency). The proposal is to set IE "Downlink information for each radio link list" to "Not present", since this IE carries no other information
9. TRANSPORT CHANNEL RECONFIGURATION message: AM or UM
- a. The IE "BLER Quality value" is changed from -6.3 to -2.0. The original value is not considered to be a realistic value (which may result a long time before power control stabilises). Although the tests using these default messages do not verify the power control, use of a more realistic value is proposed
 - b. For condition A4 IE "Default DPCH frame offset" is changed from "Not present" to an arbitrary value in the range 0..306688 by step of 512. IE "DPCH frame offset" is changed from 0 to Default DPCH Offset Value mod 38400. Due to recent CR to 25.331 the IE needs to be included in any message via which the UE enters CELL_DCH. By allowing any value and this test can be used to verify that the UE checks that the two IEs have corresponding values
10. TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM
- a. The condition a) for including IE "COUNT-C activation time is rephrased to clarify that the IE is needed if the reconfiguration command message contained the IE "Ciphering activation time for DPCH" and the first RB mapped onto RLC TM for a CN domain is established/ the last RB(s) mapped to RLC-TM for a CN domain is released

Approved corrections in T1/SIG #22 meeting (highlighted in yellow)

From T1S-020139r1

1. In several messages, IE "Timer_poll_periodic" is missing in IE "Polling info" and IE "Timer_STATUS_periodic" is missing in IE "Downlink RLC status info". Both have been included and set to 'Not Present'.
2. RF messages have been revised to align with Signalling messages.
3. In RADIO BEARER SETUP message for RF, IE "CPCH set IE" and IE "Added or Reconfigured TrCH information for DRAC list" are missing. These IEs have been added.

From T1S-020137r1

1. In condition A5 and A6 of PHYSICAL CHANNEL RECONFIGURATION message, RADIO BEARER SETUP message, RADIO BEARER RECONFIGURATION message, RADIO BEARER RELEASE message and TRANSPORT CHANNEL RECONFIGURATION message, a valid value for IE “New C-RNTI” is added.
2. In several messages, IE “Timer_poll_periodic” is missing in IE “Polling info” and IE “Timer_STATUS_periodic” is missing in IE “Downlink RLC status info”. Both have been included and set to ‘Not Present’.
3. In RADIO BEARER SETUP message, IE “CHOICE mode” is duplicated, therefore, it has been removed.
4. In condition A4 of RADIO BEARER RELEASE message, IE “Deleted UL TrCH information” and IE “Deleted DL TrCH information” are set to “Not Present” because these transport channels are not available when UE is in CELL_FACH state.
5. Whenever, transport channel is added or removed, TFCS has to be updated. Therefore in condition A5 and A6 of RADIO BEARER RELEASE message, TFCS has to be included.
6. Condition A7, whereby CS UE transit from CELL_DCH to CELL_FACH for non-speech, is added to RADIO BEARER RELEASE message. Condition A8, whereby CS UE transit from CELL_DCH to CELL_FACH for speech, is added to RADIO BEARER RELEASE message.

From T1S-020155

Removal of “Power Offset Informaion” IE in RB SETUP (from cell_DCH to cell_DCH in PS)

From T1S-020156 (Ericsson)

For applicable signalling radio bearer parameters in the “RRC CONNECTION SETUP message: UM (Transition to CELL_DCH)”:

Replaced general references to parameter set in TS 34.108 clause 6.10 with a explicit reference to the 13.6 kbps signalling radio bearer (TS 34.108 clause 6.10.2.4.1.3) .

Same corrections are included in default messages that were transferred from Annex A of TS 34.123-1 to clause 9 of TS 34.108 in T1S-020161.

From T1S-020159

RRC connection request message: TM

- For IE “Measured results on RACH” the remark is changed from “Not checked” into “To be checked against requirement if specified” (See corresponding change to SIB type 11, as introduced in a corresponding CR covering SIB 11/ 12. The reason for adding this information is that UTRAN will typically need CPICH Ec/N0 of the serving cell to determine the initial power setting for the UE)

RRC connection setup message: UM (Transition to CELL_DCH)

- C-RNTI is removed upon transition to CELL_DCH. Hence it should not be assigned in this case
- The IE "Capability update requirement" has been added, set to request both the UE radio access capabilities and the GSM capabilities. It will be beneficial for networks to request this information during connection establishment so that e.g. measurement on GSM neighbouring cell may be activated immediately. The tests should cover this case which is considered quite normal
- If the IE "RB identity" is absent, the UE shall apply the default value of 1 for the first IE "Signalling RB information to setup" and increase this default by 1 for each occurrence of IE "Signalling RB information to setup". Thus, absence of the IE will have exactly the same result. IE "RB identity" should be removed to avoid transmission of redundant information (efficiency)
- The setting of IE "SDU discard" is changed to "No discard" for UM and AM signalling radio bearers. The use of SDU discard is not suitable for signaling radio bearers because neither RRC nor NAS is designed to cope with loss of messages. For SRB 1 (UM) this implies that IE SDU discard mode is removed, while for SRB 2, 3, 4 this implies that Timer_MRW and MaxMRW are removed. Furthermore, IE "MAX_DAT" has been changed from 4 to 15. The value of 4 is considered too low and may result in release of the connection in case of temporarily bad radio conditions. The value of 15 is considered to be more suitable for real network configurations.
- The value of IE "Transmission window size" and "Receiving window size" changed from 8 to 128. In real network configurations the round trip time is expected to be in the order of 100 ms or larger. In such networks a window size of 8 could mean that the protocol is stalled most of the time. A higher window size is needed to prevent this. Moreover, the value of 128 is aligned with the L2 for L2 testing (34.123-1 clause 7.2.3)
- Within IE Polling info, IE "Poll-PDU" and IE "Timer_poll_periodic" are missing. The IEs have been added to the table, with status set to "Not present"
- The IE "Timer_EPC" is set to "Not present". The EPC function can not be used for RBs with more than logical channel per transport channel, since this is not covered by the core specification. Moreover, the function is currently not verified by any test case in 34.123-1. Considering this, it does not make sense to include this IE in the default messages
- Within IE Downlink RLC status info, IE "Timer_STATUS_periodic" is missing. The IE has been added to the table, with status set to "Not present"
- IE "Transparent mode signalling info" has been removed from 25.331 (related to the move of the TM TrCH to REL-4)
- The need for IE "Frequency info" is MD and the IE not need be included if the frequency to be used is the same as the currently used one. It should be removed to avoid transmission of redundant information (efficiency)
- If the IE max_allowed_UL_TX_power includes is absent, the UE shall apply the value included in the IE contained in System Information Block type 3. This SIB includes exactly the same value. Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
- RRC specifies that the UE shall ignore the value received in IE "CFN-targetSFN frame offset". Therefore, the IE should be removed to avoid transmission of redundant information (efficiency)
- Within IE "Downlink DPCH power control information", clarification is added that IE "CHOICE SF" specifies the number of pilot bits
- IE "Scrambling code change" should be absent rather than set to "no change". The IE

relates to compressed mode (CM) using SF/2 method and should be absent since CM is not activated

From T1S-020226 (ASUSTek)

In section 9.1 and 9.2, add IE "New DSCH-RNTI" set to "Not present" into RADIO BEARER SETUP message.

From T1S-020153 (ASUSTek)

1. Change the related IEs in CELL UPDATE and CELL UPDATE CONFIRM messages in AnnexA.
2. Add IE "New DSCH-RNTI" set to "Not present" into CELL UPDATE CONFIRM, PHYSICAL CHANNEL RECONFIGURATION, RADIO BEARER RECONFIGURATION, RADIO BEARER RELEASE, RADIO BEARER SETUP and TRANSPORT CHANNEL RECONFIGURATION messages in Annex A.

From T1S-020194r1 (Ericsson)

1. Transaction id has been added to the UE CAPABILITY CONFIRM message in Annex A.
2. Several other minor error corrections

Consequences if not approved: ☒ The test prose cannot test UE correctly.

Clauses affected: ☒

Other specs affected: ☒ Other core specifications ☒ Test specifications O&M Specifications

Other comments: ☒

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☒ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	<u>Arbitrarily selects one integer between 0 to 3</u>
<u>RRC transaction identifier</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.</u>
<u>Integrity check info</u>	<u>SS calculates the value of MAC-I for this message and writes to this IE.</u>
<u> - message authentication code</u>	<u>SS provides the value of this IE, from its internal counter.</u>
<u> - RRC message sequence number</u>	<u>Not Present</u>
<u>Integrity protection mode info</u>	<u>Not Present</u>
<u>Ciphering mode info</u>	<u>Not Present</u>
<u>Activation time</u>	<u>now</u>
<u>New U-RNTI</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>Downlink counter synchronisation info</u>	<u>Not Present</u>
<u>Maximum allowed UL TX power</u>	<u>Not Present – use default value</u>
<u>Radio link addition information</u>	<u>Not Present</u>
<u>Radio link removal information</u>	<u>Not Present</u>
<u>TX Diversity Mode</u>	<u>None</u>
<u>SSDT information</u>	<u>Not Present</u>

Contents of ACTIVE SET UPDATE COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	<p><u>Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u> <u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u> <u>Not checked</u> <u>Not checked</u> <u>Not checked</u></p>
<u>RRC transaction identifier</u>	
<u>Integrity check info</u>	
<u>- Message authentication code</u>	
<u>- RRC Message sequence number</u>	
<u>Uplink integrity protection activation info</u>	
<u>Radio bearer uplink ciphering activation time info</u>	
<u>Uplink counter synchronisation info</u>	

Contents of ACTIVE SET UPDATE FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	<p><u>Checked to see if it matches the same value used in the corresponding downlink ACTIVE SET UPDATE message</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u> <u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u> <u>Refer to test requirement</u></p>
<u>RRC transaction identifier</u>	
<u>Integrity check info</u>	
<u>- Message authentication code</u>	
<u>- RRC Message sequence number</u>	
<u>Failure cause</u>	

Contents of CELL UPDATE message: TM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	<u>Checked to see if it is set to the following values</u>
<u>- SRNC identity</u>	<u>0000 0000 0001B</u>
<u>- S-RNTI</u>	<u>0000 0000 0000 0000 0001B</u>
<u>RRC transaction identifier</u>	<u>Checked to see if it is absent</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>START List</u>	<u>Checked to see if the 'CN domain identity' and 'START' IEs are present for all CN domains supported by the UE</u>
<u>- CN domain identity</u>	<u>Checked to see if it is one of the supported CN domains</u>
<u>- START</u>	<u>Checked to see if it is present</u>
<u>AM_RLC error indication (RB2, RB3 or RB4)</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>AM_RLC error indication (RB>4)</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>Cell update cause</u>	<u>See the test content</u>
<u>Failure cause</u>	<u>Checked to see if it is absent</u>
<u>RB timer indicator</u>	
<u>- T314 expired</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>- T315 expired</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>Measured results on RACH</u>	<u>Not checked</u>

Contents of CELL UPDATE CONFIRM message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	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
<u>RRC transaction identifier</u>	Selects an arbitrary integer between 0 to 3
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
<u>Integrity protection mode info</u>	Not Present
<u>Ciphering mode info</u>	Not Present
<u>Activation time</u>	Not Present – use default value
<u>New U-RNTI</u>	Not Present
<u>New C-RNTI</u>	Not Present
<u>New DSCH-RNTI</u>	Not Present
<u>RRC State indicator</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u>	Not Present
<u>RLC re-establish indicator (RB2, RB3 and RB4)</u>	FALSE
<u>RLC re-establish indicator (RB5 and upwards)</u>	FALSE
<u>CN information info</u>	Not Present
<u>URA identity</u>	0000 0000 0001B
<u>RB information to release list</u>	Not Present
<u>RB information to reconfigure list</u>	Not Present
<u>RB information to be affected list</u>	Not Present
<u>Downlink counter synchronisation info</u>	Not Present
<u>UL Transport channel information common for all transport channels</u>	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	Not Present
<u>CHOICE Mode</u>	FDD
- CPCH set ID	Not Present
- Added or Reconfigured TrCH information for DRAC list	Not Present
<u>DL Transport channel information common for all transport channels</u>	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	Not Present
<u>Frequency info</u>	Not Present
<u>Maximum allowed UL TX power</u>	Not Present
<u>CHOICE channel requirement</u>	Not Present
<u>CHOICE mode</u>	FDD
- Downlink PDSCH information	Not Present
<u>Downlink information common for all radio links</u>	Not Present
<u>Downlink information per radio link list</u>	Not Present

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number CN domain identity NAS message	<p>Arbitrarily selects an integer between 0 and 30</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.</p> <p>SS provides the value of this IE, from its internal counter. CS domain or PS domain</p> <p>See Specific Message Content for each test case</p>

Contents of INITIAL DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type Integrity check info - Message authentication code - RRC Message sequence number CN domain identity Intra Domain NAS Node Selector - CHOICE version - CHOICE CN type - CHOICE Routing basis - Routing parameter - Entered parameter NAS message	<p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Checked to see if set to supported CN domain as specified in the IXIT statements. CS domain or PS domain Set to the same octet string as in the IMSI stored in the USIM card</p> <p>R99 GSM-MAP Local (P)TMSI If the IE "CN domain identity" is equal to "CS domain", this bit string is set 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 bits b14 through b23 of the P-TMSI. The TMSI/ P-TMSI bits are numbered from b0 to b31, with bit b0 being the least significant.</p> <p>FALSE</p> <p>Set according to that indicated in specific message content for each test case</p>
START	Not checked
Measured results on RACH	Not checked

Contents of MEASUREMENT CONTROL message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	Arbitrarily selects an unused integer between 0 to 3
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- <u>Message authentication code</u>	SS provides the value of this IE, from its internal counter.
- <u>RRC message sequence number</u>	1
<u>Measurement Identity</u>	Setup
<u>Measurement Command</u>	
<u>Measurement Reporting Mode</u>	Acknowledged mode RLC
- <u>Measurement Report Transfer Mode</u>	Periodical
- <u>Measurement Reporting/Event Trigger Reporting Mode</u>	
<u>Additional measurement list</u>	Not Present
<u>CHOICE Measurement type</u>	Intra-frequency measurement
- <u>Intra-frequency measurement</u>	
- <u>Intra-frequency cell info</u>	
- <u>New intra-frequency cell</u>	
- <u>Intra-frequency cell-id</u>	1
- <u>Cell info</u>	
- <u>Cell individual offset</u>	0dB
- <u>Reference time difference to cell</u>	Not Present
- <u>Read SFN number</u>	FALSE
- <u>CHOICE mode</u>	FDD
- <u>Primary CPICH info</u>	
- <u>Primary scrambling code</u>	Different from the Default setting in TS34.108 clause 6.1 (FDD)
- <u>Primary CPICH Tx power</u>	Not Present
- <u>TX Diversity indicator</u>	FALSE
- <u>Intra-frequency measurement quantity</u>	Not Present
- <u>Intra-frequency reporting quantity</u>	
- <u>Reporting quantities for active set cells</u>	
- <u>SFN-SFN observed time difference reporting indicator</u>	No report
- <u>Cell synchronisation information reporting indicator</u>	FALSE
- <u>Cell Identity reporting indicator</u>	TRUE
- <u>CPICH Ec/N0 reporting indicator</u>	FALSE
- <u>CPICH RSCP reporting indicator</u>	TRUE
- <u>Pathloss reporting indicator</u>	FALSE
- <u>Reporting quantities for monitored cells</u>	
- <u>SFN-SFN observed time difference reporting indicator</u>	No report
- <u>Cell synchronisation information reporting indicator</u>	FALSE
- <u>Cell Identity reporting indicator</u>	TRUE
- <u>CPICH Ec/N0 reporting indicator</u>	FALSE
- <u>CPICH RSCP reporting indicator</u>	TRUE
- <u>Pathloss reporting indicator</u>	FALSE
- <u>Reporting quantities for detected set cells</u>	Not Present
- <u>Reporting cell status</u>	
- <u>CHOICE reported cell</u>	Report cell within active set and/or monitored cells on used frequency
- <u>Maximum number of reported cells</u>	2
- <u>Measurement validity</u>	Not Present
- <u>CHOICE report criteria</u>	Periodic reporting criteria
- <u>Amount of reporting</u>	Infinity
- <u>Reporting interval</u>	64 sec
<u>DPCH Compressed mode status info</u>	Not Present

Contents of MEASUREMENT CONTROL FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>See the test content</u>

Contents of MEASUREMENT REPORT message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Measurement identity</u> <u>Measured Results</u>	<u>1</u>
<u>- Intra-frequency measured results</u>	
<u>- Cell measured results</u>	
<u>- Cell Identity</u>	<u>Not present</u>
<u>- SFN-SFN observed time difference</u>	<u>Checked that this IE is absent</u>
<u>- Cell synchronisation information</u>	<u>Checked that this IE is absent</u>
<u>- Primary CPICH info</u>	
<u>- Primary scrambling code</u>	<u>Different from the Default setting in TS34.108 clause 6.1 (FDD)</u>
<u>- CPICH Ec/N0</u>	<u>Checked that this IE is absent</u>
<u>- CPICH RSCP</u>	<u>Checked that this IE is present</u>
<u>- Pathloss</u>	<u>Checked that this IE is absent</u>
<u>Measured results on RACH</u>	<u>Checked that this IE is absent</u>
<u>Additional measured results</u>	<u>Checked that this IE is absent</u>
<u>Event results</u>	<u>Checked that this IE is absent</u>

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u>	
<u>- CHOICE Used paging identity</u>	<u>CN identity</u>
<u>- Paging cause</u>	<u>Terminating Conversational Call</u>
<u>- CN domain identity</u>	<u>CS domain</u>
<u>- CHOICE UE identity</u>	
<u>- IMSI (GSM-MAP)</u>	<u>Set to the same octet string as in the IMSI stored in the USIM card</u>
<u>BCCH modification info</u>	<u>Not Present</u>

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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Streaming Call CS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Interactive Call PS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Low Priority Signalling CS domain Set to the same octet string as in the IMSI stored in the TEST USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Low Priority Signalling PS domain Set to the same octet string as in the IMSI stored in the TEST USIM card Not Present

Contents of PAGING TYPE 2 message: AM (Speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- message authentication code</u> <u>- RRC message sequence number</u> <u>Paging cause</u> <u>CN domain identity</u> <u>Paging record type identifier</u>	<u>Arbitrarily selects an integer between 0 and 3</u> <u>The presence of this IE is dependent on IXIT statements</u> <u>in TS 34.123-2. If integrity protection is indicated to be</u> <u>active, this IE is present with the values of the sub IEs as</u> <u>stated below. Else, this IE and the sub-IEs are omitted.</u> <u>SS calculates the value of MAC-I for this message and</u> <u>writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter.</u> <u>Terminating Conversational Call</u> <u>CS domain</u> <u>Select the same type as in the IE "Initial UE Identity" in</u> <u>RRC CONNECTION REQUEST" message.</u>

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> _____ - <u>message authentication code</u> _____ - <u>RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Arbitrarily selects an integer between 0 and 3</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.</u> <u>SS calculates the value of MAC-I for this message and writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter.</u> <u>Not Present</u> <u>Not Present</u> <u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>Activation time</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>New U-RNTI</u>		<u>Not Present</u>
<u>New C-RNTI</u>	<u>A1, A2, A3, A4</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>A5, A6</u>	<u>'1010 1010 1010 1010'</u>
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>A1, A2, A3, A4</u>	<u>CELL_DCH</u>
<u>RRC State indicator</u>	<u>A5, A6</u>	<u>CELL_FACH</u>
<u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>URA identity</u> <u>Downlink counter synchronisation info</u> <u>Frequency info</u> _____ - <u>UARFCN uplink (Nu)</u> _____ - <u>UARFCN downlink (Nd)</u> <u>Maximum allowed UL TX power</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u> <u>Not Present</u> <u>Not Present</u> <u>Not Present</u> <u>Reference to clause 5.1 Test frequencies</u> <u>Reference to clause 5.1 Test frequencies</u> <u>33dBm</u>
<u>CHOICE channel requirement</u>	<u>A5, A6</u>	<u>Not Present</u>
<u>CHOICE channel requirement</u> _____ - <u>Uplink DPCH power control info</u> _____ - <u>DPCCH power offset</u> _____ - <u>PC Preamble</u> _____ - <u>SRB delay</u> _____ - <u>Power Control Algorithm</u> _____ - <u>TPC step size</u> _____ - <u>Scrambling code type</u> _____ - <u>Scrambling code number</u> _____ - <u>Number of DPDCH</u> _____ - <u>spreading factor</u> _____ - <u>TFCI existence</u> _____ - <u>Number of FBI bit</u> _____ - <u>Puncturing Limit</u>	<u>A1, A2, A3, A4</u>	<u>Uplink DPCH info</u> <u>-6dB</u> <u>1 frame</u> <u>7 frames</u> <u>Algorithm1</u> <u>1dB</u> <u>Long</u> <u>0 (0 to 16777215)</u> <u>Not Present(1)</u> <u>Reference to TS34.108 clause 6.10</u> <u>Parameter Set</u> <u>Reference to TS34.108 clause 6.10</u> <u>Parameter Set</u> <u>Reference to TS34.108 clause 6.10</u> <u>Parameter Set</u> <u>Reference to TS34.108 clause 6.10</u> <u>Parameter Set</u>
<u>CHOICE Mode</u> _____ - <u>Downlink PDSCH information</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>FDD</u> <u>Not Present</u>
<u>Downlink information common for all radio links</u> _____ - <u>Downlink DPCH info common for all RL</u> _____ - <u>Timing indicator</u> _____ - <u>CFN-targetSFN frame offset</u> _____ - <u>Downlink DPCH power control information</u> _____ - <u>DPC mode</u>	<u>A1, A2, A3</u>	<u>Maintain</u> <u>Not Present</u> <u>0 (single)</u>

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - CHOICE mode - Power offset $P_{Pilot-DPDCCH}$ - 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 		<p>FDD</p> <p>0</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Not Present</p> <p>None</p> <p>Not Present</p> <p>Not Present</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPDCCH}$ - 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 	A4	<p>Initialise</p> <p>Not Present</p> <p>0 (single)</p> <p>FDD</p> <p>0</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>Not Present</p> <p>None</p> <p>Not Present</p> <p style="background-color: yellow;">Arbitrary set to value 0..306688 by step of 512</p>
<p>Downlink information common for all radio links</p>	A5, A6	Not Present
<p>Downlink information for each radio links</p> <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - CHOICE mode - Primary CPICH usage for channel estimation - DPCH frame offset - Power offset $P_{Pilot-DPDCCH}$ - Secondary CPICH info - 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 	A1, A2,A3,A4	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>FDD</p> <p>Primary CPICH may be used</p> <p style="background-color: yellow;">Set to value : Default DPCH Offset Value mod 38400</p> <p>0</p> <p>Not Present</p> <p>5</p> <p>Reference to TS34.108 clause 6.10</p> <p>Parameter Set</p> <p>0</p> <p>No change</p> <p>0</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - Primary scrambling code 	A5	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<u>- PDSCH with SHO DCH info</u> <u>- PDSCH code mapping</u> <u>- Downlink DPCH info for each RL</u> <u>- SCCPCH Information for FACH</u>		6.1 (FDD) Not Present Not Present Not Present Not Present
<u>- Downlink information for each radio link</u>	A6	Not Present

<u>Condition</u>	<u>Explanation</u>
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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Uplink integrity protection activation info</u> <u>CHOICE mode</u> <u>COUNT-C activation time</u> <u>Radio bearer uplink ciphering activation time info</u> <u>Uplink counter synchronisation info</u>	<u>Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u> <u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u> <u>Not checked</u> <u>FDD</u> <u>The UE shall include this IE if the following two conditions are fulfilled: (a) The PHYSICAL CHANNEL RECONFIGURATION message did not contain the IE "Ciphering activation time for DPCH" and (b) The PHYSICAL CHANNEL RECONFIGURATION message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent.</u> <u>Not checked</u> <u>Not checked</u>

Contents of PHYSICAL CHANNEL RECONFIGURATION FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if it is set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message.</u>
<u>Integrity check info</u>	<u>The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Checked to see if it meets test requirement</u>

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
Message Type	
RRC transaction identifier	<u>Arbitrarily selects an integer between 0 and 30</u>
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	SS provides the value of this IE, from its internal counter.
- RRC message sequence number	Not Present
Integrity protection mode info	Not Present
Ciphering mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
Ciphering mode command	Start/restart
Ciphering algorithm	Use one of the supported ciphering algorithms
Ciphering activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256
Radio bearer downlink ciphering activation time info	Not Present
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
<u>New DSCH-RNTI</u>	<u>Not Present</u>
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup list	Not Present
RAB information for setup list	
- RAB information for setup	
- RAB info	
- RAB identity	0000 0001B
- CN domain identity	CS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	

Information Element	Value/remark
<ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 	<ul style="list-style-type: none"> Not Present 1 DCH 1 Not Present Configured
<ul style="list-style-type: none"> - MAC logical channel priority 	<ul style="list-style-type: none"> 47
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication 	<ul style="list-style-type: none"> 1 DCH 6 Not Present Not Present 11 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 	<ul style="list-style-type: none"> Not Present 1 DCH 2 Not Present Configured
<ul style="list-style-type: none"> - MAC logical channel priority 	<ul style="list-style-type: none"> 47
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication 	<ul style="list-style-type: none"> 1 DCH 7 Not Present Not Present 12 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list 	<ul style="list-style-type: none"> Not Present 1 DCH 3 Not Present Configured
<ul style="list-style-type: none"> - MAC logical channel priority 	<ul style="list-style-type: none"> 47
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<ul style="list-style-type: none"> 1 DCH 8 Not Present Not Present
<ul style="list-style-type: none"> - RB information to be affected list 	<ul style="list-style-type: none"> Not Present
<ul style="list-style-type: none"> - Downlink counter synchronisation info 	<ul style="list-style-type: none"> Not Present
<ul style="list-style-type: none"> - UL Transport channel information for all transport channels 	<ul style="list-style-type: none"> Not Present
<ul style="list-style-type: none"> - PRACH TFCS 	<ul style="list-style-type: none"> Not Present
<ul style="list-style-type: none"> - CHOICE mode 	<ul style="list-style-type: none"> FDD
<ul style="list-style-type: none"> - TFC subset 	<ul style="list-style-type: none"> Not Present

Information Element	Value/remark
<ul style="list-style-type: none"> - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information 	<p>Normal</p> <p>Complete reconfiguration</p>
<ul style="list-style-type: none"> - CTFC - Power offset information - CHOICE Gain Factors 	<p>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Reference to TS34.108 clause 6.10.2.4 Parameter Set</p>
<ul style="list-style-type: none"> - Gain factor β_c 	<p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps)</p> <p>9 (higher than 64 kbps)</p> <p>(Not Present if the above is set to Computed Gain Factors)</p>
<ul style="list-style-type: none"> - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 	<p>15</p> <p>(Not Present if the above is set to Computed Gain Factors)</p> <p>0</p> <p>FDD</p> <p>Not Present</p> <p>Not Present</p>
<p>Deleted TrCH information list</p>	<p>Not Present</p>
<p>Added or Reconfigured TrCH information list</p>	<p>3 DCHs added, 1 DCH reconfigured</p>
<ul style="list-style-type: none"> - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS 	<p>DCH</p> <p>1</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set All</p>
<ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS 	<p>DCH</p> <p>2</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p>
<ul style="list-style-type: none"> - 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 	<p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p> <p>All</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS 	<p>DCH</p> <p>3</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p>
<ul style="list-style-type: none"> - Transmission Time Interval 	<p>Not Present</p>

Information Element	Value/remark
<ul style="list-style-type: none"> - Number of Transport blocks - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) All</p> <p>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</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - 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 	<p>DCH 5</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) All</p> <p>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</p>
<p>CHOICE mode</p> <ul style="list-style-type: none"> - CPCH set ID - Added or Reconfigured TrCH information for DRAC list <p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters <p>Deleted TrCH information list</p> <p>Added or Reconfigured TrCH information list</p> <p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>FDD</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>FDD</p> <p>Same as UL</p> <p>Not Present</p> <p>3 DCHs</p> <p>DCH</p> <p>6</p> <p>Same as UL</p> <p>DCH</p> <p>1</p> <p>-2.0-6.3</p> <p>Not Present</p> <p>DCH</p> <p>7</p> <p>Same as UL</p> <p>DCH</p> <p>2</p> <p>Not Present</p> <p>Not Present</p> <p>DCH</p> <p>8</p> <p>Same as UL</p> <p>DCH</p> <p>3</p> <p>Not Present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters 	<p>DCH 10 Same as UL</p>

Information Element	Value/remark
- Uplink transport channel type	DCH
- UL TrCH identity	5
- DCH quality target	-2.0
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
Frequency info	Not Present
UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	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	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P _{Pilot-DPDCH}	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

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

Information Element	Value/remark
Message Type	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	SS provides the value of this IE, from its internal counter.
- RRC message sequence number	Not Present
Integrity protection mode info	
Ciphering mode info	Not Present
Ciphering mode command	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 algorithm	Start/restart
Ciphering activation time for DPCH	Use one of the supported ciphering algorithms (256+CFN-(CFN MOD 8 + 8))MOD 256
Radio bearer downlink ciphering activation time info	Not Present
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup	Not Present
RAB information for setup	
- RAB info	
- RAB identity	0000 0101B
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314UseT315
- RB information to setup	
- RB identity	20
- PDCP info	Not Present
- 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	
- SDU discard mode	No discard
- MAX_DAT	Max-DAT retransmissions
Timer_MRW	154
MaxMRW	400
- Transmission window size	4
- Timer_RST	1288
- Max_RST	500
- Polling info	4
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200

Information Element	Value/remark
- Timer_EPC	Not Present ²⁰⁰
- Missing PDU indicator	TRUE
- <u>Timer STATUS periodic</u>	Not Present
- RB mapping info	2 RBMuxOptions
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of uplink RLC logical channels	DCH
- Uplink transport channel type	1
- UL Transport channel identity	Not Present
- Logical channel identity	Configured
- CHOICE RLC size list	48
- MAC logical channel priority	1
- Downlink RLC logical channel info	DCH
- Number of downlink RLC logical channels	6
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	RACH
- Number of uplink RLC logical channels	Not Present
- Uplink transport channel type	7
- UL Transport channel identity	Explicit List
- Logical channel identity	Reference to TS34.108 clause 6 Parameter Set
- CHOICE RLC size list	68
- RLC size index	1
- MAC logical channel priority	FACH
- Downlink RLC logical channel info	Not Present
- Number of downlink RLC logical channels	Not Present
- Downlink transport channel type	7
- 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	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport channels	Not Present
- PRACH TFCS	FDD
- CHOICE mode	Not Present
- TFC subset	Normal
- UL DCH TFCS	Complete reconfiguration
- CHOICE TFCI signalling	Complete reconfiguration
- TFCI Field 1 information	Complete reconfiguration
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	Complete reconfiguration
- CHOICE CTFC Size	Complete reconfiguration
- 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	Computed Gain Factors(The last TFC is set to Signalled Gain Factors)
- CHOICE Gain Factors	11 (below 64 kbps)
- Gain factor β_c	9 (higher than 64 kbps)
- Gain factor β_d	(Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	15
- CHOICE mode	(Not Present if the above is set to Computed Gain Factors)
- Power offset P _{p-m}	0
Deleted TrCH information list	FDD
Added or Reconfigured TrCH information list	Not Present
- Added or Reconfigured UL TrCH information	Not Present
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	

Information Element	Value/remark
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size CHOICE mode <ul style="list-style-type: none"> - CPCH set ID - Added or Reconfigured TrCH information for DRAC list DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information 	<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>FDD</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>FDD</p> <p>Explicit</p> <p>Normal</p> <p>Complete reconfiguration</p>
<ul style="list-style-type: none"> - CTFC - Power offset information CHOICE Gain Factors Gain factor β_c Gain factor β_d Reference TFC ID CHOICE mode Power offset P_{p-m} 	<p>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4</p> <p>Reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Not present</p> <p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps)</p> <p>9 (higher than 64 kbps)</p> <p>(Not Present if the above is set to Computed Gain Factors)</p> <p>15</p> <p>(Not Present if the above is set to Computed Gain Factors)</p> <p>0</p> <p>FDD</p> <p>Not Present</p>
<p>Deleted TrCH information list</p> <p>Added or Reconfigured TrCH information list</p> <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info <p>Frequency info</p>	<p>Not Present</p> <p>DCH</p> <p>6</p> <p>Explicit</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>2.0-6.3</p> <p>Not Present</p> <p>Not present</p>

Information Element	Value/remark
UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	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	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P _{Pilot-DPDCH}	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	Reference to clause 6.1 "Default settings (FDD)"
- Primary scrambling code	Not Present
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> - <u>message authentication code</u> - <u>RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u>	<u>A1, A4, A5, A6, A7, A8</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present
<u>Activation time</u>	<u>A1, A4, A7, A8</u>	(256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A5, A6</u>	Not Present
<u>New U-RNTI</u>		Not Present
<u>New C-RNTI</u>	<u>A1, A4, A7, A8</u>	Not Present
<u>New C-RNTI</u>	<u>A5, A6</u>	'1010 1010 1010 1010'
<u>New DSCH-RNTI</u>	<u>A1, A4, A5, A6, A7, A8</u>	Not Present
<u>RRC State indicator</u>	<u>A1, A4,A7,A8</u>	CELL_DCH
<u>RRC State indicator</u>	<u>A5, A6</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>URA identity</u> <u>Signalling RB information to setup</u>	<u>A1, A4, A5, A6,A7,A8</u>	Not Present Not Present Not Present
<u>RAB information for setup</u> - <u>RAB info</u> - <u>RAB identity</u> - <u>CN domain identity</u> - <u>NAS Synchronization Indicator</u> - <u>Re-establishment timer</u> - <u>RB information to setup</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>CHOICE RLC info type</u> - <u>CHOICE Uplink RLC mode</u> - <u>Transmission RLC discard</u> - <u>Segmentation indication</u> - <u>CHOICE Downlink RLC mode</u> - <u>Segmentation indication</u> - <u>RB mapping info</u> - <u>Information for each multiplexing option</u> - <u>RLC logical channel mapping indicator</u> - <u>Number of uplink RLC logical channels</u> - <u>Uplink transport channel type</u> - <u>UL Transport channel identity</u> - <u>Logical channel identity</u> - <u>CHOICE RLC size list</u> - <u>MAC logical channel priority</u> - <u>Downlink RLC logical channel info</u> - <u>Number of downlink RLC logical channels</u> - <u>Downlink transport channel type</u> - <u>DL DCH Transport channel identity</u>	<u>A1,A7</u>	0000 0001B CS domain Not Present useT315 10 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 1 Not Present Configured 1 1 DCH 6

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - DL DSCH Transport channel identity - Logical channel identity 		<ul style="list-style-type: none"> Not Present Not Present
<ul style="list-style-type: none"> RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels 	<ul style="list-style-type: none"> A8 	<ul style="list-style-type: none"> 0000 0001B CS domain Not Present useT315 10 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 1 Not Present Configured 7 1 DCH 6 Not Present Not Present 11 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 7 Not Present Not Present 12 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		DCH 3 Not Present Configured 7 1 DCH 8 Not Present Not Present
RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup - RB identity - PDCP info - Support for lossless SRNS relocation - Max PDCP SN window size - PDCP PDU header - Header compression information - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT	A4, A5, A6	(AM DTCH for PS domain) 0000 0101B PS domain Not Present useT315 20 FALSE Not present Absent Not present RLC info AM RLC No Discard 15
- Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic		128 500 4 200 200 Not Present 1 TRUE TRUE 99 Not Present
- CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic		AM RLC TRUE 128 200 Not Present TRUE Not Present
- RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		2 RBMuxOptions Not Present 1 DCH 1 Not Present Configured 8 1 DCH 6 Not Present Not Present

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 		<p>Not Present</p> <p>1</p> <p>RACH</p> <p>Not Present</p> <p>7</p> <p>Explicit list</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>8</p> <p>1</p> <p>FACH</p> <p>Not Present</p> <p>Not Present</p> <p>7</p>
<p>RB information to be affected</p> <p>Downlink counter synchronisation info</p>	<p>A1, A4, A5, A6,A7,A8</p> <p>A1, A4, A5, A6,A7,A8</p>	<p>Not Present</p> <p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 	<p>A1,A4,A7, A8</p>	<p>Not Present</p> <p>FDD</p> <p>Not Present</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set.</p> <p>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps)</p> <p>9 (higher than 64 kbps) (Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)</p> <p>15</p> <p>(Not Present if the CHOICE Gain Factors is set to Computed Gain Factors)</p> <p>0</p> <p>FDD</p> <p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS 	<p>A5, A6</p>	<p>Not Present</p>
<p>Deleted UL TrCH information</p> <p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List 	<p>A1, A4, A5, A6,A7,A8</p> <p>A1</p>	<p>Not Present</p> <p>DCH</p> <p>1</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - 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 		<p>Not Present Reference to TS34.108 clause 6.10 Parameter Set All</p> <p>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</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>A4,A7</p>	<p>2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 5</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set DCH 1</p> <p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set All</p> <p>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</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS 	<p>A8</p>	<p>4 TrCHs(DCH for DCCH and 3DCHs for DTCH) DCH 5</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 		<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>DCH</p> <p>1</p>
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type - UL Transport channel identity - TFS 		<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>DCH</p> <p>2</p>
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - Uplink transport channel type 		<p>Dedicated transport channels</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>All</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>DCH</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - <u>UL Transport channel identity</u> - <u>TFS</u> - <u>CHOICE Transport channel type</u> - <u>Dynamic Transport format information</u> - <u>RLC Size</u> - <u>Number of TBs and TTI List</u> - <u>Transmission Time Interval</u> - <u>Number of Transport blocks</u> - <u>CHOICE Logical Channel list</u> - <u>Semi-static Transport Format information</u> - <u>Transmission time interval</u> - <u>Type of channel coding</u> - <u>Coding Rate</u> - <u>Rate matching attribute</u> - <u>CRC size</u> 		<p>3</p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> (This IE is repeated for TFI number.)</p> <p><u>Not Present</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p>
<p><u>CHOICE mode</u></p> <ul style="list-style-type: none"> - <u>CPCH set ID</u> - <u>Added or Reconfigured TrCH information for DRAC list</u> 		<p><u>FDD</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p>
<p><u>Added or Reconfigured UL TrCH information</u></p>	<u>A5, A6</u>	<u>Not Present</u>
<p><u>CHOICE mode</u></p> <ul style="list-style-type: none"> - <u>CPCH set ID</u> - <u>Added or Reconfigured TrCH information for DRAC list</u> 	<u>A1, A4, A5, A6,A7,A8</u>	<p><u>FDD</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p>
<p><u>DL Transport channel information common for all transport channel</u></p> <ul style="list-style-type: none"> - <u>SCCPCH TFCS</u> - <u>CHOICE mode</u> - <u>CHOICE DL parameters</u> 	<u>A1,A7,A8</u>	<p><u>Not Present</u></p> <p><u>FDD</u></p> <p><u>SameasUL</u></p>
<p><u>DL Transport channel information common for all transport channel</u></p> <ul style="list-style-type: none"> - <u>SCCPCH TFCS</u> - <u>CHOICE mode</u> - <u>CHOICE DL parameters</u> - <u>DL DCH TFCS</u> - <u>CHOICE TFCI Signalling</u> - <u>TFCI Field 1 Information</u> - <u>CHOICE TFCS representation</u> - <u>TFCS complete reconfigure</u> - <u>CHOICE CTFC Size</u> - <u>CTFC information</u> - <u>CTFC</u> - <u>Power offset information</u> 	<u>A4</u>	<p><u>Not Present</u></p> <p><u>FDD</u></p> <p><u>Explicit</u></p> <p><u>Normal</u></p> <p><u>Complete reconfiguration</u></p> <p style="background-color: magenta;"><u>Number of bits used must be enough to cover all combinations of CTFC from clause 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 Reference to TS34.108 clause 6.10.2.4 Parameter Set</u></p> <p><u>Not Present</u></p>
<p><u>DL Transport channel information common for all transport channel</u></p> <ul style="list-style-type: none"> - <u>SCCPCH TFCS</u> - <u>CHOICE mode</u> - <u>CHOICE DL parameters</u> 	<u>A5, A6</u>	<u>Not Present</u>
<p><u>Deleted DL TrCH information</u></p> <p><u>Added or Reconfigured DL TrCH information</u></p> <ul style="list-style-type: none"> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> 	<u>A1, A4, A5, A6,A7,A8 A1</u>	<p><u>Not Present</u></p> <p><u>DCH</u></p> <p><u>6</u></p> <p><u>Same as UL</u></p>

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 		<p>DCH 1</p> <p>-2.0</p> <p>Not Present</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - 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 - 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 - Transparent mode signalling info 	<p>A4,A7</p>	<p>2 TrCHs(DCH for DCCH and DCH for DTCH)</p> <p>DCH 10 Same as UL DCH 5</p> <p>Not Present Not Present</p> <p>DCH 6 Explicit</p> <p>Dedicated transport channel</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present Reference to TS34.108 clause 6.10 Parameter Set</p> <p>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</p> <p>-2.0</p> <p>Not Present</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - 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 - Semi-static Transport Format information - Transmission time interval 	<p>A8</p>	<p>4 TrCHs(DCH for DCCH and 3DCHs for DTCH)</p> <p>DCH 10 Same as UL DCH 5</p> <p>Not Present Not Present</p> <p>DCH 6 Explicit</p> <p>Dedicated transport channel</p> <p>Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present Reference to TS34.108 clause 6.10 Parameter Set</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- 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		-2.0
- BLER Quality value		Not Present
- Transparent mode signalling info		DCH
- Downlink transport channel type		7
- DL Transport channel identity		Explicit
- CHOICE DL parameters		
- TFS		
- CHOICE Transport channel type		Dedicated transport channel
- Dynamic transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target		Not Present
- BLER Quality value		Not Present
- Transparent mode signalling info		DCH
- Downlink transport channel type		8
- DL Transport channel identity		Explicit
- CHOICE DL parameters		
- TFS		
- CHOICE Transport channel type		Dedicated transport channel
- Dynamic transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target		Not Present
- BLER Quality value		Not Present
- Transparent mode signalling info		Not Present
Added or Reconfigured DL TrCH information	A5, A6	Not Present
Frequency info	A1, A4, A5,	

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- UARFCN uplink (Nu) - UARFCN downlink (Nd)	A6	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	A1, A4, A7, A8	33dBm
Maximum allowed UL TX power	A5, A6	Not Present
CHOICE channel requirement - Uplink DPCH power control info - DPCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	A1, A4, A7, A8	Uplink DPCH info -6dB 1 frame 7 frames Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
CHOICE channel requirement	A5,A6	Not Present
CHOICE Mode - Downlink PDSCH information	A1, A4, A5, A6,A7,A8	FDD Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value	A1	Maintain Not Present 0 (single) FDD 0 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 FDD Not Present None Not Present Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF	A4,A7,A8	Maintain Not Present 0 (single) FDD 0 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

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - CHOICE mode - DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value 		Set FDD Not Present None Not Present Arbitrary set to value 0..306688 by step of 512
<u>Downlink information common for all radio links</u>	A5,A6	Not Present
<u>Downlink information for each radio link list</u> - 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 - 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	A1	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used 0 chips Not Present 1 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<u>Downlink information for each radio link list</u> - 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 - 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	A4,A7,A8	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used Set to value : Default DPCH Offset Value mod 38400 Not Present 1 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<u>Downlink information for each radio link list</u> - 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 - SCCPCH information for FACH	A5	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Not present Not Present
<u>Downlink information for each radio link list</u> - Downlink information for each radio link - Choice mode	A6	FDD

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - SCCPCH information for FACH 		<p>Different from the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Not present</p> <p>Not Present</p>

<u>Condition</u>	<u>Explanation</u>
A1	This IE need for "Non speech to CELL_DCH from CELL_DCH in CS"
A2 is defined in TS34.108 clause 9 in message "RADIO BEARER SETUP message: AM or UM (Speech in CS)".	This IE need for "Speech to CELL_DCH from CELL_DCH in CS"
A3 is defined in TS34.108 clause 9 in message "RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS)".	This IE need for "Packet to CELL_DCH from CELL_DCH in PS"
A4	This IE need for "Packet to CELL_DCH from CELL_FACH in PS"
A5	This IE need for "Packet to CELL_FACH from CELL_DCH in PS"
A6	This IE need for "Packet to CELL_FACH from CELL_FACH in PS"
A7	This IE need for "Non speech to CELL_DCH from CELL_FACH in CS"
A8	This IE need for "Speech to CELL_DCH from CELL_FACH in CS"

Contents of RADIO BEARER SETUP COMPLETE message: AM

<p>Message Type</p> <p>RRC transaction identifier</p> <p>Integrity check info</p> <ul style="list-style-type: none"> - Message authentication code - RRC Message sequence number <p>Uplink integrity protection activation info</p> <p>CHOICE mode</p> <p>START</p> <p>COUNT-C activation time</p> <p>Radio bearer uplink ciphering activation time info</p> <p>Uplink counter synchronisation info</p>	<p>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub-IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p>FDD</p> <p>Not checked</p> <p>The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER SETUP message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER SETUP message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. 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.</p> <p>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.</p> <p>Not checked</p>
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Contents of RADIO BEARER SETUP FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> RRC transaction identifier	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER SETUP message.
<u>Integrity check info</u>	The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.
- <u>Message authentication code</u>	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.
- <u>RRC Message sequence number</u>	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
<u>Failure cause</u>	Checked to see if it meets test requirement
<u>Radio bearers for which reconfiguration would have succeeded</u>	Not checked

Contents of RADIO BEARER RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u> - message authentication code</u> <u> - RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>	<u>A1,A2,A3,A4,A5,A6</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A1,A2,A3,A4</u>	<u>Not Present</u>
<u>New U-RNTI</u>		<u>Not Present</u>
<u>New C-RNTI</u>	<u>A1, A2, A3, A4,</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>A5, A6</u>	<u>'1010 1010 1010 1010'</u>
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>A1, A2, A3, A4</u>	<u>CELL_DCH</u>
<u>RRC State indicator</u>	<u>A5, A6</u>	<u>CELL_FACH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>A1,A2,A3,A4,A5,A6</u>	<u>Not Present</u>
<u>CN information info</u> <u>URA identity</u> <u>RAB information to reconfigure list</u>		Not Present Not Present Not Present
<u>RB information to reconfigure list</u> <u> - RB information to reconfigure</u> <u> - RB identity</u> <u> - PDCP info</u> <u> - PDCP SN info</u> <u> - RLC info</u> <u> - RB mapping info</u> <u> - RB stop/continue</u> <u> - RB information to reconfigure</u> <u> - RB identity</u> <u> - PDCP info</u> <u> - PDCP SN info</u> <u> - RLC info</u> <u> - RB mapping info</u> <u> - RB stop/continue</u> <u> - RB information to reconfigure</u> <u> - RB identity</u> <u> - PDCP info</u> <u> - PDCP SN info</u> <u> - RLC info</u> <u> - RB mapping info</u> <u> - RB stop/continue</u> <u> - RB information to reconfigure</u> <u> - RB identity</u> <u> - PDCP info</u> <u> - PDCP SN info</u> <u> - RLC info</u> <u> - RB mapping info</u> <u> - RB stop/continue</u> <u> - RB information to reconfigure</u> <u> - RB identity</u>	<u>A1</u>	TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1". <u>(UM DCCH for RRC)</u> 1 Not Present Not Present Not Present Not Present Not Present <u>(AM DCCH for RRC)</u> 2 Not Present Not Present Not Present Not Present Not Present <u>(AM DCCH for NAS DT High priority)</u> 3 Not Present Not Present Not Present Not Present Not Present <u>(AM DCCH for NAS DT Low priority)</u> 4 Not Present Not Present Not Present Not Present Not Present <u>(TM DTCH)</u> 10

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue 		<p>Not Present Not Present Not Present Not Present Not Present</p>
<p><u>RB information to reconfigure list</u></p> <ul style="list-style-type: none"> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> - <u>RB mapping info</u> - <u>RB stop/continue</u> 	<p><u>A2</u></p>	<p>TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".</p> <p>(UM DCCH for RRC)</p> <p>1 Not Present Not Present Not Present Not Present Not Present Not Present (AM DCCH for RRC)</p> <p>2 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT High priority)</p> <p>3 Not Present Not Present Not Present Not Present Not Present (AM DCCH for NAS_DT Low priority)</p> <p>4 Not Present Not Present Not Present Not Present Not Present (TM DTCH)</p> <p>10 Not Present Not Present Not Present Not Present Not Present (TM DTCH)</p> <p>11 Not Present Not Present Not Present Not Present Not Present (TM DTCH)</p> <p>(This IE is needed for 12.2 kbps and 10.2 kbps)</p> <p>12 Not Present Not Present Not Present Not Present Not Present</p>
<p><u>RB information to reconfigure list</u></p> <ul style="list-style-type: none"> - <u>RB information to reconfigure</u> - <u>RB identity</u> - <u>PDCP info</u> - <u>PDCP SN info</u> - <u>RLC info</u> 	<p><u>A3,A4,A5,A6</u></p>	<p>TS25.331 specifies that "Although this IE is not always required, need is MP to align with ASN.1".</p> <p>(UM DCCH for RRC)</p> <p>1 Not Present Not Present Not Present</p>

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - PDCP SN info - RLC info - RB mapping info - RB stop/continue 		<p>Not Present</p> <p>Not Present</p> <p>(AM DCCH for RRC)</p> <p>2</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(AM DCCH for NAS_DT High priority)</p> <p>3</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(AM DCCH for NAS_DT Low priority)</p> <p>4</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>(AM DTCH)</p> <p>20</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<p>RB information to be affected</p>	<p>A1, A2, A3,A4,A5, A6</p>	<p>Not Present</p>
<p>UL Transport channel information for all transport channels</p>	<p>A1, A2, A5,A6</p>	<p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size <p>- CTFC information</p> <p>- CTFC</p> <ul style="list-style-type: none"> - Power offset information - CHOICE Gain Factors <p>- Gain factor β_c</p> <p>- Gain factor β_d</p> <ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode 	<p>A3, A4</p>	<p>Not Present</p> <p>FDD</p> <p>Not Present</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover 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</p> <p>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)</p> <p>15 (Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)</p> <p>0</p> <p>FDD</p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- Power offset P _{p-m}		Not Present
<u>Deleted UL TrCH information</u>	<u>A1, A2, A3, A4, A5,A6</u>	Not Present
<u>Added or Reconfigured UL TrCH information</u>	<u>A1, A2, A5,A6</u>	Not Present
<u>Added or Reconfigured UL TrCH information</u>	<u>A4</u>	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH
- Uplink transport channel type		5
- UL Transport channel identity		
- TFS		Dedicated transport channels
- CHOICE Transport channel type		Reference to TS34.108 clause 6.10 Parameter Set
- Dynamic Transport format information		(This IE is repeated for TFI number.)
- RLC Size		Not Present
- Number of TBs and TTI List		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval		All
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		Dedicated transport channels
- CHOICE Transport channel type		Reference to TS34.108 clause 6.10 Parameter Set
- Dynamic Transport format information		(This IE is repeated for TFI number.)
- RLC Size		Not Present
- Number of TBs and TTI List		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval		All
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
<u>Added or Reconfigured UL TrCH information</u>	<u>A3</u>	(DCH for DTCH) DCH
- Uplink transport channel type		1
- UL Transport channel identity		
- TFS		Dedicated transport channels
- CHOICE Transport channel type		Reference to TS34.108 clause 6.10 Parameter Set
- Dynamic Transport format information		(This IE is repeated for TFI number.)
- RLC Size		Not Present
- Number of TBs and TTI List		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval		All
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		Reference to TS34.108 clause 6.10 Parameter Set
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 		Set Reference to TS34.108 clause 6.10 Parameter Set Set Reference to TS34.108 clause 6.10 Parameter Set Set Reference to TS34.108 clause 6.10 Parameter Set Set Reference to TS34.108 clause 6.10 Parameter Set Set
CHOICE mode <ul style="list-style-type: none"> - CPCCH set ID - Added or Reconfigured TrCH information for DRAC list 	A1,A2,A3,A4,A5,A6	FDD Not Present Not Present
DL Transport channel information common for all transport channel	A1, A2, A5, A6	Not Present
DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI Signalling - TFCI Field 1 Information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size <ul style="list-style-type: none"> - CTFC information <ul style="list-style-type: none"> - CTFC <ul style="list-style-type: none"> - Power offset information 	A3,A4	Not Present FDD Explicit Normal Complete reconfiguration <div style="background-color: #FF00FF; padding: 5px;"> Number of bits used must be enough to cover all combinations of CTFC from clause 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 Reference to TS34.108 clause 6.10.2.4 Parameter Set </div> Not Present
Deleted DL TrCH information	A1, A2, A3, A4, A5,A6	Not Present
Added or Reconfigured DL TrCH information	A1, A2, A5, A6	Not Present
Added or Reconfigured DL TrCH information <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic transport format information - RLC Size <ul style="list-style-type: none"> - Number of TBs and TTI List - Dynamic transport format information - Transmission Time Interval - Number of Transport blocks <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval <ul style="list-style-type: none"> - Type of channel coding - Coding Rate 	A4	2 TrCHs(DCH for DCCH and DCH for DTCH) DCH 10 Same as UL DCH 5 Not Present Not Present DCH 6 Explicit Dedicated transport channel Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set Set Reference to TS34.108 clause 6.10 Parameter Set Set Reference to TS34.108 clause 6.10 Parameter Set Set Reference to TS34.108 clause 6.10 Parameter Set Set

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info 		Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set -2.0 Not Present
<u>Added or Reconfigured DL TrCH information</u> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - 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 - 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 - Transparent mode signalling info 	A3	DCH 6 Explicit Dedicated transport channel Reference to TS34.108 clause 6.10 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set -2.0 Not Present
<u>Frequency info</u> <ul style="list-style-type: none"> - UARFCN uplink (Nu) - UARFCN downlink (Nd) 	A1,A2,A3, A4,A5,A6	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
<u>Maximum allowed UL TX power</u>	A1,A2,A3, A4,A5,A6	33dBm
<u>CHOICE channel requirement</u> <ul style="list-style-type: none"> -Uplink DPCH power control info - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit 	A1, A2, A3, A4	<u>Uplink DPCH info</u> -6dB 1 frame 7 frames Algorithm 1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
<u>CHOICE channel requirement</u>	A5, A6	Not Present
<u>CHOICE Mode</u>	A1,A2,A3, A4,A5,A6	FDD
- Downlink PDSCH information		Not Present
<u>Downlink information common for all radio links</u>	A5, A6	Not Present
<u>Downlink information common for all radio links</u>	A1, A2, A3	

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - 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 		<p>Maintain Not Present</p> <p>0 (single) FDD 0 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 Not Present None Not Present Not Present</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - 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 	A4	<p>Initialise Not Present</p> <p>0 (single) FDD 0 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 Not Present None Not Present Present Arbitrary set to value 0..306688 by step of 512</p>
<p>Downlink information per radio link list</p> <ul style="list-style-type: none"> -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 FACH 	A1, A2, A3	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present</p> <p>Primary CPICH may be used 0 chips Not Present</p> <p>2 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present</p>
<p>Downlink information per radio link list</p>	A4	

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<ul style="list-style-type: none"> -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 FACH 		<p><u>FDD</u></p> <p><u>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p> <p><u>Primary CPICH may be used</u></p> <p><u>Set to value : Default DPCH Offset Value mod 38400</u></p> <p><u>Not Present</u></p> <p><u>2</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u></p> <p><u>0</u></p> <p><u>No change</u></p> <p><u>0</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p>
<ul style="list-style-type: none"> - 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 - SCCPCH Information for FACH 	<u>A5</u>	<p><u>FDD</u></p> <p><u>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p> <p><u>Not present</u></p> <p><u>Not Present</u></p>
<ul style="list-style-type: none"> - 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 - Secondary CCPCH info 	<u>A6</u>	<p><u>FDD</u></p> <p><u>Different from the Default setting in TS34.108 clause 6.1 (FDD)</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p> <p><u>Not Present</u></p>

<u>Condition</u>	<u>Explanation</u>
<u>A1</u>	<u>This IE need for "Non speech in CS"</u>
<u>A2</u>	<u>This IE need for "Speech in CS"</u>
<u>A3</u>	<u>This IE need for "Packet to CELL_DCH from CELL_DCH in PS"</u>
<u>A4</u>	<u>This IE need for "Packet to CELL_DCH from CELL_FACH in PS"</u>
<u>A5</u>	<u>This IE need for "Packet to CELL_FACH from CELL_DCH in PS"</u>
<u>A6</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>

Contents of RADIO BEARER RECONFIGURATION FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RECONFIGURATION message.</u>
<u>Integrity check info</u>	<u>The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Checked to see if it meets test requirement</u>
<u>Radio bearers for which reconfiguration would have succeeded List</u>	<u>Not checked</u>

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION COMPLETE message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>CHOICE mode</u>	<u>FDD</u>
<u>COUNT-C activation time</u>	<u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of RADIO BEARER RELEASE message: AM or UM

Information Element		Value/remark
<u>Message Type</u>	<u>A1, A2, A3, A4, A5, A6, A7, A8</u>	
<u>RRC transaction identifier</u> <u>Integrity check info</u>		Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter.
_____ - message authentication code		Not Present
_____ - RRC message sequence number		Not Present
<u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>		(256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A1, A2, A3, A4, A7, A8, A5, A6</u>	Not Present
<u>New U-RNTI</u>		Not Present
<u>New C-RNTI</u>	<u>A1,A2,A3, A4</u>	Not Present
<u>New C-RNTI</u>	<u>A5, A6, A7, A8</u>	'1010 1010 1010 1010'
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6, A7, A8</u>	Not Present
<u>RRC State indicator</u>	<u>A1,A2, A3, A4</u>	CELL_DCH
<u>RRC State indicator</u>	<u>A5, A6, A7, A8</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u>	<u>A1,A2,A3, A4,A5,A6, A7, A8</u>	Not Present
<u>CN information info</u> <u>Signalling Connection release indication</u> <u>URA identity</u> <u>RAB information to reconfigure list</u>		Not Present Not Present Not Present Not Present
<u>RB information to release</u>	<u>A1,A2, A7, A8</u>	
_____ - RB identity		10
<u>RB information to release</u>	<u>A2, A8</u>	
_____ - RB identity		11
<u>RB information to release</u>	<u>A2, A8</u>	
_____ - RB identity		12
<u>RB information to release</u>	<u>A3, A4, A5, A6</u>	
_____ - RB identity		20
<u>RB information to be affected</u>	<u>A1,A2, A3,A4,A5, A6, A7, A8</u>	Not Present
<u>Downlink counter synchronisation info</u>	<u>A1,A2,A3, A4,A5,A6, A7, A8</u>	Not Present
<u>UL Transport channel information for all transport channels</u>	<u>A1, A2, A3, A4, A5, A6</u>	TFCS reconfigured to fit the new transport channel configuration.
<u>UL Transport channel information for all transport channels</u>	<u>A5, A6</u>	Not Present
<u>Deleted UL TrCH Information</u>	<u>A1,A2, A3, A7, A8, A4</u>	
_____ - Uplink transport channel type		DCH
_____ - Transport channel identity		1
<u>Deleted UL TrCH Information</u>	<u>A2, A8</u>	
_____ - Uplink transport channel type		DCH
_____ - Transport channel identity		2

Information Element		Value/remark
<u>Deleted UL TrCH Information</u> - Uplink transport channel type - Transport channel identity	A2, A8	DCH 3
<u>Deleted UL TrCH Information</u>	A4, A5,A6	Not Present
<u>Added or Reconfigured UL TrCH information</u>	A4, A6, A7, A8	Not Present
<u>Added or Reconfigured UL TrCH information</u> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size	A1, A2, A3, A5	TrCHs(DCH for DCCH) DCH 5 Dedicated transport channels According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) (This IE is repeated for TFI number.) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) All According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
<u>DL Transport channel information for all transport channels</u>	A1, A2, A3, A4, A5, A6, A7, A8	TFCS reconfigured to fit the new transport channel configuration.
<u>DL Transport channel information for all transport channels</u>	A5, A6	Not Present
<u>Deleted DL TrCH Information</u> - Downlink transport channel type - Transport channel identity	A1, A2, A3, A7, A8,A4	DCH 6
<u>Deleted DL TrCH Information</u> - Downlink transport channel type - Transport channel identity	A2, A8	DCH 7
<u>Deleted DL TrCH Information</u> - Downlink transport channel type - Transport channel identity	A2, A8	DCH 8
<u>Deleted DL TrCH Information</u>	A4, A5,A6	Not Present
<u>Added or Reconfigured DL TrCH information</u>	A4, A6, A7, A8	Not Present
<u>Added or Reconfigured DL TrCH information</u> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info	A1, A2, A3, A5	1 TrCHs(DCH for DCCH) DCH 10 Same as UL DCH 5 Not Present Not Present
<u>Frequency info</u> - UARFCN uplink (Nu) - UARFCN downlink (Nd) Maximum allowed UL TX power	A1,A2,A3, A4,A5,A6, A7, A8	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies 33dBm

<u>Information Element</u>		<u>Value/remark</u>
<u>CHOICE channel requirement</u>	A5, A6, A7, A8	Not Present
<u>CHOICE channel requirement</u> - <u>Uplink DPCH power control info</u> - <u>DPCCH power offset</u> - <u>PC Preamble</u> - <u>SRB delay</u> - <u>Power Control Algorithm</u> - <u>TPC step size</u> - <u>Scrambling code type</u> - <u>Scrambling code number</u> - <u>Number of DPDCH</u> - <u>spreading factor</u> - <u>TFCI existence</u> - <u>Number of FBI bit</u> - <u>Puncturing Limit</u>	A1,A2,A3, A4	<u>Uplink DPCH info</u> -6dB 1 frame 7 frames Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>CHOICE Mode</u>	A1,A2,A3, A4,A5,A6, A7, A8	FDD
- <u>Downlink PDSCH information</u>		Not Present
<u>Downlink information common for all radio links</u>	A5, A6, A7, A8	Not Present
<u>Downlink information common for all radio links</u> - <u>Downlink DPCH info common for all RL</u> - <u>Timing indicator</u> - <u>CFN-targetSFN frame offset</u> - <u>Downlink DPCH power control information</u> - <u>DPC mode</u> - <u>CHOICE mode</u> - <u>Power offset P_{Pilot-DPCH}</u> - <u>DL rate matching restriction information</u> - <u>Spreading factor</u> - <u>Fixed or Flexible Position</u> - <u>TFCI existence</u> - <u>CHOICE SF</u> - <u>DPCH compressed mode info</u> - <u>TX Diversity mode</u> - <u>SSDT information</u> - <u>Default DPCH Offset Value</u>	A1,A2, A3	Maintain Not Present 0 (single) FDD 0 Not Present <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> Not Present None Not Present Not Present
<u>Downlink information common for all radio links</u> - <u>Downlink DPCH info common for all RL</u> - <u>Timing indicator</u> - <u>CFN-targetSFN frame offset</u> - <u>Downlink DPCH power control information</u> - <u>DPC mode</u> - <u>CHOICE mode</u> - <u>Power offset P_{Pilot-DPCH}</u> - <u>DL rate matching restriction information</u> - <u>Spreading factor</u> - <u>Fixed or Flexible Position</u> - <u>TFCI existence</u> - <u>CHOICE SF</u> - <u>DPCH compressed mode info</u> - <u>TX Diversity mode</u>	A4	Maintain Not Present 0 (single) FDD 0 Not Present <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> Not Present None

Information Element		Value/remark
<ul style="list-style-type: none"> - SSDT information - Default DPCH Offset Value 		<p>Not Present Arbitrary set to value 0..306688 by step of 512</p>
<p>Downlink information for each radio link list</p> <ul style="list-style-type: none"> -Downlink information for each radio link <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - 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 - SSS Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH 	<p>A1,A2,A3</p>	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Primary CPICH may be used</p> <p>0 chips</p> <p>Not Present</p> <p>3</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>0</p> <p>No change</p> <p>0</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<p>Downlink information for each radio link list</p> <ul style="list-style-type: none"> -Downlink information for each radio link <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - 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 - SSS Cell Identity - Closed loop timing adjustment mode - SCCPCH information for FACH 	<p>A4</p>	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Primary CPICH may be used</p> <p>Set to value : Default DPCH Offset Value mod 38400</p> <p>Not Present</p> <p>3</p> <p>Reference to TS34.108 clause 6.10 Parameter Set</p> <p>0</p> <p>No change</p> <p>0</p> <p>Not Present</p> <p>Not Present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link <ul style="list-style-type: none"> - Choice mode - Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL <ul style="list-style-type: none"> - SCCPCH information for FACH 	<p>A5, A7, A8</p>	<p>FDD</p> <p>Ref. to the Default setting in TS34.108 clause 6.1 (FDD)</p> <p>Not Present</p> <p>Not Present</p> <p>Not present</p> <p>Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link 	<p>A6</p>	<p>Not Present</p>

<u>Condition</u>	<u>Explanation</u>
<u>A1</u>	<u>This IE need for "Non speech in CS"</u>
<u>A2</u>	<u>This IE need for "Speech in CS"</u>
<u>A3</u>	<u>This IE need for "Packet to CELL_DCH from CELL_DCH in PS"</u>
<u>A4</u>	<u>This IE need for "Packet to CELL_DCH from CELL_FACH in PS"</u>
<u>A5</u>	<u>This IE need for "Packet to CELL_FACH from CELL_DCH in PS"</u>
<u>A6</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>
<u>A7</u>	<u>This IE need for "Non speech to CELL_FACH from CELL_DCH in CS"</u>
<u>A8</u>	<u>This IE need for "Speech to CELL_FACH from CELL_DCH in CS"</u>

Contents of RADIO BEARER RELEASE COMPLETE message: AM

Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info CHOICE mode COUNT-C activation time Radio bearer uplink ciphering activation time info Uplink counter synchronisation info	Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked. FDD The UE shall include this IE if the following two conditions are fulfilled: (a) The RADIO BEARER RELEASE message did not contain the IE "Ciphering activation time for DPCH" and (b) The RADIO BEARER RELEASE message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. 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. 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. Not checked
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Contents of RADIO BEARER RELEASE FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Failure cause</u> <u>Radio bearers for which reconfiguration would have succeeded</u>	Checked to see if it is set to identical value of the same IE in the downlink RADIO BEARER RELEASE message. The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Checked to see if it meets test requirement 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 IMSI (GSM-MAP)	Set to the UE's IMSI (GSM-MAP) or TMSI and LAI.
Establishment cause	To be checked against requirement if specified
Protocol error indicator	FALSE
Measured results on RACH	To be checked against requirement if specified Not checked

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-RNTI	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B
- SRNC identity	0000 0000 0000 0000 0001B
- S-RNTI	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 30
Integrity check info	The presence of this IE depends on 2 factors: (a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. (b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
N308	2 (for CELL_DCH state). Not Present (for UE in other connected mode states).
Release cause	Normal event
Rplmn information	Not Present

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

Information Element	Semantics description
Message Type RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION RELEASE message.
Integrity check info - Message authentication code - RRC Message sequence number	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. Checked to see if it's identical to the value of XMAC-I calculated by the SS 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 30
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not present0000-0000-0000-0001B
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
- UE radio access FDD capability update requirement	TRUE
- UE radio access TDD capability update requirement	FALSE
- System specific capability update requirement list	Gsm
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present4
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- SDU discard mode	Timer based no explicit
- Timer discard	50
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present2
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discardMax-DAT-retransmissions
- MAX_DAT	415

Information Element	Value/remark
Timer_MRW	400
MaxMRW	4
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configure
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 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	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	Max-DAT retransmissions
Timer_MRW	415
MaxMRW	4
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	

Information Element	Value/remark
- 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 present200
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)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	3
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not present4
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discardMax-DAT-retransmissions
- MAX_DAT	415
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE

Information Element	Value/remark
- 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	200
- Timer_STATUS_periodic	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	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Nor 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 signalling radio bearer) and reference to TS34.108 clause 6-10
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6-10 Parameter Set
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Computed Signalled Gain Factors)
- Gain factor βc	11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors)
- Gain factor βd	15 (Not Present if the above is set to Computed Gain Factors)

Information Element	Value/remark
- 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	
- 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) Reference to clause 6.10 Parameter Set
- Number of TBs and TTI lists	(This IE is repeated for TFI number)
- Transmission Time Interval	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical channel list	All
- Semi-static Transport Format information	
- Transmission time interval	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
- Type of channel coding	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
- Coding Rate	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
- Rate matching attribute	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
- CRC size	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
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	5
- DCH quality target	
- BLER Quality value	-2.0-6.3
Transparent mode signalling info	Not Present
Frequency info	Not Present
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	Not Present 33dBm
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) Reference to TS34.108 clause 6.10 Parameter Set

Information Element	Value/remark
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	Initialise
- Timing Indication	Not Present 0
- CFN-targetSFN frame offset	FDD
- CHOICE mode	
- Downlink DPCH power control information	
- DPC mode	0 (single)
- Power offset P _{Pilot-DPCH}	0
- DL rate matching restriction information	Not Present
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Specifies number of pilot bits. According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) 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 0..306688 by step of 512 0
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value : Default DPCH Offset Value mod 38400 0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer) Reference to clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	Not present 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 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)

Information Element	Value/remark
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC state indicator	CELL_FACH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not present
- SDU discard mode	Not present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	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 Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of 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	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

Information Element	Value/remark
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer status prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	Not present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST	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 Element	Value/remark
<ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL DCH Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index 	<ul style="list-style-type: none"> 2 RBMuxOptions Not Present 1 DCH 5 3 Configured 3 1 DCH 10 Not Present 3 Not Present 1 RACH Not Present 3 Explicit list According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<ul style="list-style-type: none"> 4 1 FACH Not Present Not Present 3
<p>Signalling RB information to setup</p> <ul style="list-style-type: none"> - RB identity - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT 	<ul style="list-style-type: none"> (AM DCCH for NAS DT Low priority) Not Present RLC info AM RLC No Discard 15
<ul style="list-style-type: none"> - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll 	<ul style="list-style-type: none"> 128 500 4 200 200
<ul style="list-style-type: none"> - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll Windows - Timer_poll_periodic 	<ul style="list-style-type: none"> Not Present 1 TRUE TRUE 99 Not Present
<ul style="list-style-type: none"> - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic 	<ul style="list-style-type: none"> AM RLC TRUE 128 200 Not Present TRUE Not Present
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority 	<ul style="list-style-type: none"> 2 RBMuxOptions Not Present 1 DCH 5 4 Configured 4

Information Element	Value/remark
<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - RLC size index 	<p>1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit list According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)</p>
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<p>5 1 FACH Not Present Not Present 4 Not Present</p>
<p>UL Transport channel information for all transport channels Added or Reconfigured TrCH information list</p>	<p>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"</p>
<ul style="list-style-type: none"> - Added or Reconfigured UL TrCH information - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size 	<p>DCH 5 Delicated transport channels Value 16 results in an RLC size of 144 bits; OctetModeType1 ((8*sizeType1)+16).</p>
<ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>List with single entry Not Present 0 ALL 40 ms Convolutional 1/3 160 16</p>
<p>DL Transport channel information common for all transport channel Added or Reconfigured TrCH information list</p> <ul style="list-style-type: none"> - 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 	<p>Not Present(Refer to SIB type 5) 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" DCH 10 Same as UL DCH 5 Not Present</p>
<p>Frequency info</p>	<p>Not present</p>
<p>Maximum allowed UL TX power CHOICE channel requirement Downlink information common for all radio links Downlink information for each radio link list</p>	<p>Not present Not Present Not Present Not present</p>

<u>Information Element</u>	<u>Value/remark</u>

Contents of RRC CONNECTION SETUP COMPLETE message: AM

Information Element	Value/remark
Message Type	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.
RRC transaction identifier	
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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>Integrity check info</u>	
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Identification of received message</u>	<u>Not Checked</u>
<u>Protocol error information</u>	<u>Refer to test requirement.</u>
<u>- Protocol error cause</u>	

Contents of SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier	
Integrity check info	
- Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
- Ciphering algorithm capability	
- UEA0	If the UE has indicated support for ciphering algorithm UEA0 in the IE "security capability" in the RRC CONNECTION SETUP COMPLETE message, this IE is set to TRUE. If ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE 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. If ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE 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 algorithm capability" IE in this message.
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	CS or PS Supported domain
UE system specific security capability	Not Checked

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info Radio bearer uplink ciphering activation time info	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. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked. 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 Integrity check info - Message authentication code - RRC Message sequence number Failure cause	Checked to see if the value is the identical to the same IE in the downlink SECURITY MODE COMMAND message. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Refer to test requirement.

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark
Message Type RRC transaction identifier Integrity check info - message authentication code - RRC message sequence number Integrity protection mode info Ciphering mode info Activation time	A1, A2, A3, A4, A5, A6 A1, A2, A3, A4, A5, A6	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time	A5, A6	Not Present
New U-RNTI		Not Present
New C-RNTI	A1, A2, A3, A4	Not Present

Information Element	Condition	Value/remark
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, A2, A3, A4, A5, A6	Not Present
RRC State indicator	A1, A2, A3, A4	CELL_DCH
RRC State indicator	A5, A6	CELL_FACH
UTRAN DRX cycle length coefficient	A1, A2, A3, A4, A5, A6	Not Present
CN information info		Not Present
URA identity		Not Present
Downlink counter synchronisation info		Not Present
UL Transport channel information for all transport channels	A1, A2, A5, A6	Not Present
UL Transport channel information for all transport channels	A3, A4	<p>Not Present</p> <p>FDD</p> <p>Not Present</p> <p>Normal</p> <p>Complete reconfiguration</p> <p>Number of bits used must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.2.4 Parameter Set.</p> <p>This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Reference to TS34.108 clause 6.10.2.4 Parameter Set</p> <p>Computed Gain Factors(The last TFC is set to Signalled Gain Factors)</p> <p>11 (below 64 kbps)</p> <p>9 (higher than 64 kbps)</p> <p>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)</p> <p>15</p> <p>(Not Present if the CHOICE Gain Factors is set to ComputedGain Factors)</p> <p>0</p> <p>FDD</p> <p>Not Present</p>
<ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size 		
<ul style="list-style-type: none"> - CTFC information 		
<ul style="list-style-type: none"> - CTFC 		
<ul style="list-style-type: none"> - Power offset information - CHOICE Gain Factors 		
<ul style="list-style-type: none"> - Gain factor β_c 		
<ul style="list-style-type: none"> - Gain factor β_d 		
<ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 		
Added or Reconfigured UL TrCH information	A1, A2, A5, A6	Not Present

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<p><u>Added or Reconfigured UL TrCH information</u></p> <ul style="list-style-type: none"> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- TFS</u> <u>- CHOICE Transport channel type</u> <u>- Dynamic Transport format information</u> <u>- RLC Size</u> <ul style="list-style-type: none"> <u>- Number of TBs and TTI List</u> <u>- Transmission Time Interval</u> <u>- Number of Transport blocks</u> <ul style="list-style-type: none"> <u>- CHOICE Logical Channel list</u> <u>- Semi-static Transport Format information</u> <u>- Transmission time interval</u> <ul style="list-style-type: none"> <u>- Type of channel coding</u> <ul style="list-style-type: none"> <u>- Coding Rate</u> <ul style="list-style-type: none"> <u>- Rate matching attribute</u> <ul style="list-style-type: none"> <u>- CRC size</u> <ul style="list-style-type: none"> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- TFS</u> <u>- CHOICE Transport channel type</u> <u>- Dynamic Transport format information</u> <u>- RLC Size</u> <ul style="list-style-type: none"> <u>- Number of TBs and TTI List</u> <u>- Transmission Time Interval</u> <u>- Number of Transport blocks</u> <ul style="list-style-type: none"> <u>- CHOICE Logical Channel list</u> <u>- Semi-static Transport Format information</u> <u>- Transmission time interval</u> <ul style="list-style-type: none"> <u>- Type of channel coding</u> <ul style="list-style-type: none"> <u>- Coding Rate</u> <ul style="list-style-type: none"> <u>- Rate matching attribute</u> <ul style="list-style-type: none"> <u>- CRC size</u> 	<p><u>A4</u></p>	<p><u>2 TrCHs(DCH for DCCH and DCH for DTCH)</u> <u>DCH</u> <u>5</u></p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>DCH</u> <u>1</u></p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u></p>
<p><u>Added or Reconfigured UL TrCH information</u></p> <ul style="list-style-type: none"> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- TFS</u> <u>- CHOICE Transport channel type</u> <u>- Dynamic Transport format information</u> <u>- RLC Size</u> <ul style="list-style-type: none"> <u>- Number of TBs and TTI List</u> <u>- Transmission Time Interval</u> <u>- Number of Transport blocks</u> <ul style="list-style-type: none"> <u>- CHOICE Logical Channel list</u> <u>- Semi-static Transport Format information</u> <u>- Transmission time interval</u> <ul style="list-style-type: none"> <u>- Type of channel coding</u> <ul style="list-style-type: none"> <u>- Coding Rate</u> 	<p><u>A3</u></p>	<p><u>(DCH for DTCH)</u> <u>DCH</u> <u>1</u></p> <p><u>Dedicated transport channels</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>All</u></p> <p><u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u></p>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- 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,A4,A5,A6	FDD
- CPCH set ID		Not Present
- Added or Reconfigured TrCH information for DRAC list		Not Present
DL Transport channel information common for all transport channel	A1, A2, A5,A6	Not Present
DL Transport channel information common for all transport channel	A3,A4	Not Present
- SCCPCH TFCS		FDD
- CHOICE mode		Explicit
- CHOICE DL parameters		Normal
- DL DCH TFCS		Complete reconfiguration
- CHOICE TFCI Signalling		Number of bits used must be enough to cover all combinations of CTFC from clause 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 Reference to TS34.108 clause 6.10.2.4 Parameter Set
- TFCI Field 1 Information		Not Present
- CHOICE TFCS representation		Not Present
- TFCS complete reconfigure		Not Present
- CHOICE CTFC Size		Not Present
- CTFC information		Not Present
- CTFC		Not Present
- Power offset information		Not Present
Added or Reconfigured DL TrCH information	A1, A2, A5, A6	Not Present

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<u>Added or Reconfigured DL TrCH information</u> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>Uplink transport channel type</u> - <u>UL TrCH identity</u> - <u>DCH quality target</u> - <u>BLER Quality value</u> - <u>Transparent mode signalling info</u> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>TFS</u> - <u>CHOICE Transport channel type</u> - <u>Dynamic transport format information</u> - <u>RLC Size</u> - <u>Number of TBs and TTI List</u> - <u>Dynamic transport format information</u> - <u>Transmission Time Interval</u> - <u>Number of Transport blocks</u> - <u>Semi-static Transport Format information</u> - <u>Transmission time interval</u> - <u>Type of channel coding</u> - <u>Coding Rate</u> - <u>Rate matching attribute</u> - <u>CRC size</u> - <u>DCH quality target</u> - <u>BLER Quality value</u> - <u>Transparent mode signalling info</u>	<u>A4</u>	<u>2 TrCHs(DCH for DCCH and DCH for DTCH)</u> <u>DCH</u> <u>10</u> <u>Same as UL</u> <u>DCH</u> <u>5</u> <u>Not Present</u> <u>Not Present</u> <u>DCH</u> <u>6</u> <u>Explicit</u> <u>Dedicated transport channel</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> -2.0 Not Present
<u>Added or Reconfigured DL TrCH information</u> - <u>Downlink transport channel type</u> - <u>DL Transport channel identity</u> - <u>CHOICE DL parameters</u> - <u>TFS</u> - <u>CHOICE Transport channel type</u> - <u>Dynamic transport format information</u> - <u>RLC Size</u> - <u>Number of TBs and TTI List</u> - <u>Dynamic transport format information</u> - <u>Transmission Time Interval</u> - <u>Number of Transport blocks</u> - <u>Semi-static Transport Format information</u> - <u>Transmission time interval</u> - <u>Type of channel coding</u> - <u>Coding Rate</u> - <u>Rate matching attribute</u> - <u>CRC size</u> - <u>DCH quality target</u> - <u>BLER Quality value</u> - <u>Transparent mode signalling info</u>	<u>A3</u>	<u>DCH</u> <u>6</u> <u>Explicit</u> <u>Dedicated transport channel</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> <u>Reference to TS34.108 clause 6.10 Parameter Set</u> <u>Set</u> -2.0 Not Present
<u>Frequency info</u> - <u>UARFCN uplink (Nu)</u>	<u>A1,A2,A3,A4,A5,A6</u>	<u>Reference to clause 5.1 Test frequencies</u>

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	A1,A2,A3, A4,A5,A6	33dBm
<u>CHOICE channel requirement</u>	A5, A6	Not Present
<u>CHOICE channel requirement</u> -Uplink DPCH power control info - DPCCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	A1, A2, A3, A4	Uplink DPCH info -6dB 1 frame 7 frames Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
<u>CHOICE Mode</u> - Downlink PDSCH information	A1,A2,A3, A4,A5,A6	FDD Not Present
Downlink information common for all radio links	A5, A6	Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - 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	A1, A2, A3	Maintain Not Present 0 (single) FDD 0 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 Not Present None Not Present Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - DPC mode - CHOICE mode - Power offset $P_{Pilot-DPCH}$ - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - CHOICE SF - DPCH compressed mode info - TX Diversity mode	A4	Initialise Not Present 0 (single) FDD 0 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 Not Present None

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - SSDT information - Default DPCH Offset Value 		Not Present Arbitrary set to value 0..306688 by step of 512
<ul style="list-style-type: none"> Downlink information for each radio link list - Downlink information for each radio links - 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 - Power offset $P_{Pilot-DPCH}$ - Secondary CPICH info - 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 	A1, A2, A3	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used 0 chips 0 Not Present 4 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<ul style="list-style-type: none"> Downlink information for each radio link list - Downlink information for each radio links - 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 - Power offset $P_{Pilot-DPCH}$ - Secondary CPICH info - 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 	A4	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Primary CPICH may be used Set to value: Default DPCH Offset Value mod 38400 0 Not Present 4 Reference to TS34.108 clause 6.10 Parameter Set 0 No change 0 Not Present Not Present Not Present
<ul style="list-style-type: none"> - 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 - SCCPCH information for FACH 	A5	FDD Ref. to the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Not present Not Present
<ul style="list-style-type: none"> - 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 - SCCPCH information for FACH 	A6	FDD Different from the Default setting in TS34.108 clause 6.1 (FDD) Not Present Not Present Not present Not Present

<u>Condition</u>	<u>Explanation</u>
<u>A1</u>	<u>This IE need for "Non speech in CS"</u>
<u>A2</u>	<u>This IE need for "Speech in CS"</u>
<u>A3</u>	<u>This IE need for "Packet to CELL_DCH from CELL_DCH in PS"</u>
<u>A4</u>	<u>This IE need for "Packet to CELL_DCH from CELL_FACH in PS"</u>
<u>A5</u>	<u>This IE need for "Packet to CELL_FACH from CELL_DCH in PS"</u>
<u>A6</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>CHOICE mode</u>	<u>FDD</u>
<u>COUNT-C activation time</u>	<u>The UE shall include this IE if the following two conditions are fulfilled: (a) The TRANSPORT CHANNEL RECONFIGURATION message did not contain the IE "Ciphering activation time for DPCH" and (b) The TRANSPORT CHANNEL RECONFIGURATION message established the first RB(s) mapped to RLC-TM for a CN domain or released the last RB(s) mapped to RLC-TM for a CN domain. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of TRANSPORT CHANNEL RECONFIGURATION FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if it is set to identical value of the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message.</u>
<u>Integrity check info</u>	<u>The presence if this IE is dependent on IXIT statements in TS 34.123-2. if integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Checked to see if it meets test requirement</u>

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL_DCH)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>CHOICE mode</u> <u>DPCH/PUSCH TFCS in Uplink</u> <u>- CHOICE Subset representation</u> <u>- Allowed Transport format combination</u> <u>Activation time for TFC subset</u> <u>TFC Control duration</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on I_XIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. FDD Allowed transport format combination list 0 (The TFC is constructed from ALL TF0) Not Present Not Present

Contents of UE CAPABILITY ENQUIRY message: AM or UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Capability update requirement</u> <u>- UE radio access FDD capability update requirement</u> <u>- UE radio access TDD capability update requirement</u> <u>- System specific capability update requirement list</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on I_XIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. TRUE FALSE Not Present

Contents of UE CAPABILITY INFORMATION message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
- <u>Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
- <u>RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>UE radio access capability</u>	<u>Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings</u>
- <u>Access stratum release indicator</u>	
- <u>PDCP Capability</u>	
- <u>RLC Capability</u>	
- <u>Transport channel capability</u>	
- <u>RF Capability FDD</u>	
- <u>RF Capability TDD</u>	
- <u>Physical channel capability</u>	
- <u>UE multi-mode/multi-RAT capability</u>	
- <u>Security Capability</u>	
- <u>UE positioning Capability</u>	
- <u>Measurement capability</u>	
<u>UE radio access capability extension</u>	<u>Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings</u>
<u>UE system specific capability</u>	<u>Not Checked</u>

Contents of UE CAPABILITY INFORMATION CONFIRM message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Set to the same value as received in the UE CAPABILITY INFORMATION message.</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.</u>
- <u>Message authentication code</u>	<u>SS calculates the value of MAC-I for this message and writes to this IE.</u>
- <u>RRC Message sequence number</u>	<u>SS provides the value of this IE, from its internal counter.</u>

Contents of URA UPDATE message: TM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
<u>RRC transaction identifier</u>	Checked to see if it is absent
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.
- <u>Message authentication code</u>	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.
- <u>RRC Message sequence number</u>	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
<u>URA update cause</u>	See the test content
<u>Protocol error indicator</u>	Checked to see if it is absent or set to 'FALSE'
<u>Protocol error information</u>	Checked to see if it is absent

Contents of URA UPDATE CONFIRM message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	
- SRNC identity	If this message is sent on CCCH, use the following values. Else, this IE is absent.
- S-RNTI	0000 0000 0001B
<u>RRC transaction identifier</u>	0000 0000 0000 0000 0001B
<u>Integrity check info</u>	Arbitrarily selects and integer between 0 and 3
- <u>message authentication code</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- <u>RRC message sequence number</u>	SS calculates the value of MAC-I for this message and writes to this IE.
<u>Integrity protection mode info</u>	SS provides the value of this IE, from its internal counter.
<u>Ciphering mode info</u>	Not Present
<u>New U-RNTI</u>	Not Present
<u>New C-RNTI</u>	Not Present
<u>RRC state indicator</u>	URA_PCH
<u>UTRAN DRX cycle length coefficient</u>	3
<u>CN information info</u>	Not Present
<u>URA identity</u>	See the test content
<u>Downlink counter synchronisation info</u>	Not Present

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type Integrity check info - Message authentication code - RRC Message sequence number	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
CN domain identity	Checked to see if set to supported a CN domain for which a signalling connection exists as specified in the IXIT statements
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 - RRC message sequence number RRC transaction identifier Integrity protection mode info Ciphering mode info New U-RNTI New C-RNTI UE Timers and constants in connected mode - T301 - N301 - T302 - N302 - T304 - N304 - T305 - T307 - T308 - T309 - T310 - N310 - T311 - T312 - N312 - T313 - N313 - T314 - T315 - N315 - T316 - T317 CN information info URA identity Downlink counter synchronisation info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Arbitrarily selects an integer between 0 and 3 Not Present Not Present See the test content See the test content 2000 milliseconds 2 4000 milliseconds 3 1000 milliseconds 3 60 minutes 50 seconds 320 milliseconds 8 seconds 320 milliseconds 5 500 milliseconds 5 seconds 200 10 seconds 200 20 seconds 30 seconds 200 50 seconds 1800 seconds Not Present Not present Not Present

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>COUNT-C activation time</u>	<u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM, (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

9.1.2 Default RRC Message Contents (3.84 Mcps TDD)

[FFS]

9.1.3 Default RRC Message Contents (1.28 Mcps TDD)

This clause contains the default values of RRC messages, other than those specified in TS 34.108 clauses 6 and 9. Unless indicated otherwise in specific test cases, they shall be transmitted by the system simulator in RRC messages, and which are required to be received from the UE under test.

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).

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.

Default SYSTEM INFORMATION:

NOTE 1: 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 CELL UPDATE message: TM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	<u>Checked to see if it is set to the following values</u>
<u>- SRNC identity</u>	<u>0000 0000 0001B</u>
<u>- S-RNTI</u>	<u>0000 0000 0000 0000 0001B</u>
<u>RRC transaction identifier</u>	<u>Checked to see if it is absent</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>START List</u>	<u>Checked to see if the 'CN domain identity' and 'START' IEs are present for all CN domains supported by the UE</u>
<u>- CN domain identity</u>	<u>Checked to see if it is one of the supported CN domains</u>
<u>- START</u>	<u>Checked to see if it is present</u>
<u>AM_RLC error indication (RB2, RB3 or RB4)</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>AM_RLC error indication (RB>4)</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>Cell update cause</u>	<u>See the test content</u>
<u>Failure cause</u>	<u>Checked to see if it is absent</u>
<u>RB timer indicator</u>	
<u>- T314 expired</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>- T315 expired</u>	<u>Checked to see if it is set to 'FALSE'</u>
<u>Measured results on RACH</u>	<u>Not checked</u>

Contents of CELL UPDATE CONFIRM message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>U-RNTI</u>	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
<u>RRC transaction identifier</u>	Selects an arbitrary integer between 0 to 3
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
<u>Integrity protection mode info</u>	Not Present
<u>Ciphering mode info</u>	Not Present
<u>Activation time</u>	Not Present – use default value
<u>New U-RNTI</u>	Not Present
<u>New C-RNTI</u>	Not Present
<u>New DSCH-RNTI</u>	Not Present
<u>RRC State indicator</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u>	Not Present
<u>RLC re-establish indicator (RB2, RB3 and RB4)</u>	FALSE
<u>RLC re-establish indicator (RB5 and upwards)</u>	FALSE
<u>CN information info</u>	Not Present
<u>URA identity</u>	0000 0000 0001B
<u>RB information to release list</u>	Not Present
<u>RB information to reconfigure list</u>	Not Present
<u>RB information to be affected list</u>	Not Present
<u>Downlink counter synchronisation info</u>	Not Present
<u>UL Transport channel information common for all transport channels</u>	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	Not Present
<u>CHOICE mode</u>	TDD
<u>DL Transport channel information common for all transport channels</u>	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	Not Present
<u>Frequency info</u>	Not Present
<u>Maximum allowed UL TX power</u>	Not Present
<u>CHOICE channel requirement</u>	Not Present
<u>CHOICE mode</u>	TDD
<u>Downlink information common for all radio links</u>	Not Present
<u>Downlink information per radio link list</u>	Not Present

Contents of MEASUREMENT CONTROL message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	Arbitrarily selects an unused integer between 0 to 3
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- <u>Message authentication code</u>	SS provides the value of this IE, from its internal counter.
- <u>RRC message sequence number</u>	1
<u>Measurement Identity</u>	Setup
<u>Measurement Command</u>	
<u>Measurement Reporting Mode</u>	
- <u>Measurement Report Transfer Mode</u>	Acknowledged mode RLC
- <u>Measurement Reporting/Event Trigger Reporting Mode</u>	Periodical reporting
<u>Additional measurement list</u>	Not Present
<u>CHOICE Measurement type</u>	Intra-frequency measurement
- <u>Intra-frequency measurement</u>	
- <u>Intra-frequency cell info</u>	
- <u>New intra-frequency cell</u>	
- <u>Intra-frequency cell-id</u>	0
- <u>Cell info</u>	
- <u>Cell individual offset</u>	0dB
- <u>Reference time difference to cell</u>	Not Present
- <u>Read SFN number</u>	FALSE
- <u>CHOICE mode</u>	TDD
- <u>Primary CCPCH info</u>	
- <u>CHOICE mode</u>	TDD
- <u>CHOICE TDD option</u>	1.28 Mcps TDD
- <u>TSTD indicator</u>	TRUE
- <u>Cell parameters ID</u>	4
- <u>Block STTD indicator</u>	TRUE
- <u>Primary CCPCH TX power</u>	Not Present
- <u>Timeslot List</u>	Not Present
- <u>Intra-frequency measurement quantity</u>	
- <u>Filter coefficient</u>	0
- <u>CHOICE mode</u>	TDD
- <u>Measurement quantity list</u>	
- <u>Measurement quantity</u>	Primary CCPCH RSCP
- <u>Intra-frequency reporting quantity</u>	
- <u>Reporting quantities for active set cells</u>	
- <u>SFN-SFN observed time difference reporting indicator</u>	No report
- <u>Cell synchronisation information reporting indicator</u>	FALSE
- <u>Cell Identity reporting indicator</u>	TRUE
- <u>CHOICE mode</u>	TDD
- <u>Timeslot ISCP reporting indicator</u>	FALSE
- <u>Proposed TGSN Reporting required</u>	FALSE
- <u>Primary CCPCH RSCP reporting indicator</u>	TRUE
- <u>Pathloss reporting indicator</u>	FALSE
- <u>Reporting quantities for monitored cells</u>	
- <u>SFN-SFN observed time difference reporting indicator</u>	No report
- <u>Cell synchronisation information reporting indicator</u>	FALSE
- <u>Cell Identity reporting indicator</u>	TRUE
- <u>CHOICE mode</u>	TDD
- <u>Timeslot ISCP reporting indicator</u>	FALSE
- <u>Proposed TGSN Reporting required</u>	FALSE
- <u>Primary CCPCH RSCP reporting indicator</u>	TRUE
- <u>Pathloss reporting indicator</u>	FALSE
- <u>Reporting quantities for detected set cells</u>	Not Present
- <u>Reporting cell status</u>	
- <u>CHOICE reported cell</u>	Report cell within active set and/or monitored cells on

- Maximum number of reported cells	<u>used frequency</u>
- Measurement validity	2
- CHOICE report criteria	Not Present
- Amount of reporting	Periodic reporting criteria
- Reporting interval	Infinity
DPCCH Compressed mode status info	64 sec
	Not Present

Contents of MEASUREMENT CONTROL FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
Message Type	
<u>RRC transaction identifier</u>	<u>Checked to see if it's set to the identical value for the same IE in the downlink MEASUREMENT CONTROL message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
- <u>Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
- <u>RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>See the test content</u>

Contents of MEASUREMENT REPORT message: AM

<u>Information Element</u>	<u>Value/remark</u>
Message Type	
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
- <u>Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
- <u>RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Measurement identity</u>	1
<u>Measured Results</u>	
- <u>Intra-frequency measured results</u>	
- <u>Cell measured results</u>	
- <u>Cell Identity</u>	Not present
- <u>SFN-SFN observed time difference</u>	Checked that this IE is absent
- <u>Cell synchronisation information</u>	Checked that this IE is absent
- <u>CHOICE mode</u>	Checked that this is TDD
- <u>Cell parameters Id</u>	4
- <u>Proposed TGSN</u>	Checked that this IE is absent
- <u>Primary CCPCH RSCP</u>	Checked that this IE is present.
- <u>Pathloss</u>	Checked that this IE is absent
- <u>Timeslot list</u>	Checked that this IE is absent
<u>Measured results on RACH</u>	Checked that this IE is absent
<u>Additional measured results</u>	Checked that this IE is absent
<u>Event results</u>	Checked that this IE is absent

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<u>CN identity</u> <u>Terminating Low Priority Signalling</u> <u>CS domain</u> <u>Set to the same octet string as in the IMSI stored in the</u> <u>USIM card</u> <u>Not Present</u>

Contents of PAGING TYPE 1 message: TM (SMS in PS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<u>CN identity</u> <u>Terminating Low Priority Signalling</u> <u>PS domain</u> <u>Set to the same octet string as in the IMSI stored in the</u> <u>USIM card</u> <u>Not Present</u>

Contents of PAGING TYPE 2 message: AM (Speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- message authentication code</u> <u>- RRC message sequence number</u> <u>Paging cause</u> <u>CN domain identity</u> <u>Paging record type identifier</u>	<u>Arbitrarily selects an integer between 0 and 3</u> <u>The presence of this IE is dependent on IXIT statements</u> <u>in TS 34.123-2. If integrity protection is indicated to be</u> <u>active, this IE is present with the values of the sub IEs as</u> <u>stated below. Else, this IE and the sub-IEs are omitted.</u> <u>SS calculates the value of MAC-I for this message and</u> <u>writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter.</u> <u>Terminating Conversational Call</u> <u>CS domain</u> <u>Select the same type as in the IE "Initial UE Identity" in</u> <u>RRC CONNECTION REQUEST" message.</u>

Contents of PHYSICAL CHANNEL RECONFIGURATION message: AM or UM

<u>Information Element</u>	<u>Condition</u>	<u>Value/remark</u>
<u>Message Type</u>	<u>A1, A2, A3, A4, A5, A6</u>	Arbitrarily selects an integer between 0 and 3
<u>RRC transaction identifier</u>		The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is with the values of the sub IEs as stated below.
<u>Integrity check info</u>		Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter.
<u>- message authentication code</u>		Not Present
<u>- RRC message sequence number</u>		Not Present
<u>Integrity protection mode info</u>		Not Present
<u>Ciphering mode info</u>		Not Present
<u>Activation time</u>	<u>A1, A2, A3, A4</u>	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
<u>Activation time</u>	<u>A5, A6</u>	Not Present
<u>New U-RNTI</u>		Not Present
<u>New C-RNTI</u>	<u>A1, A2, A3, A4</u>	Not Present
<u>New C-RNTI</u>	<u>A5, A6</u>	'1010 1010 1010 1010'
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6</u>	Not Present
<u>RRC State indicator</u>	<u>A1, A2, A3, A4</u>	CELL_DCH
<u>RRC State indicator</u>	<u>A5, A6</u>	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u>		Not Present
<u>CN information info</u>		Not Present
<u>URA identity</u>		Not Present
<u>Downlink counter synchronisation info</u>		Not Present
<u>Frequency info</u>		TDD
<u>-CHOICE mode</u>		Reference to TS34.108 clause 5.1 Parameter set.
<u>-UARFCN(Nt)</u>		30dBm
<u>Maximum allowed UL TX power</u>		
<u>CHOICE channel requirement</u>		Uplink DPCH info
<u>Uplink DPCH info</u>	<u>A1, A2, A3, A4</u>	TDD
<u>- CHOICE mode</u>		Reference to TS34.108
<u>- Uplink DPCH power control info</u>		Individually signalled
<u>- UL Target SIR</u>		1.28 Mcps TDD
<u>- CHOICE UL OL PC info</u>		1 dB
<u>- CHOICE TDD option</u>		Reference to TS34.108
<u>- TPC step size</u>		TDD
<u>- Primary CCPCH Tx Power</u>		Not Present
<u>- CHOICE mode</u>		
<u>- Uplink Timing Advance Control</u>		
<u>- UL CCTrCH List</u>		1
<u>- TFCS ID</u>		$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
<u>- Time info</u>		infinite
<u>- Activation time</u>		
<u>- Duration</u>		
<u>- Common timeslot info</u>		Reference to TS34.108 clause 6 Parameter Set.
<u>- 2nd interleaving mode</u>		Reference to TS34.108 clause 6 Parameter Set.
<u>- TFCI coding</u>		Reference to TS34.108 clause 6 Parameter Set.
<u>- Puncturing Limit</u>		Reference to TS34.108 clause 6 Parameter Set.
<u>- Repetition Period</u>		Reference to TS34.108 clause 6 Parameter Set.
<u>- Repetition Length</u>		Reference to TS34.108 clause 6 Parameter Set.
<u>- Uplink DPCH timeslots and codes</u>		Reference to TS34.108 clause 6 Parameter Set.
<u>- First timeslot information</u>		

<ul style="list-style-type: none"> - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot code list - Channelisation Code - CHOICE more timeslots 		<p>1.28 Mcps The number of an uplink timeslot that has unassigned codes. TRUE</p> <p>1.28 Mcps Default</p> <p>16 1.28 Mcps QPSK 1 Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends on the number of resources specified in TS34.108 section 6 and the number of slots in which they are assigned.</p>
<p>CHOICE Mode</p>		<p>TDD</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC Step Size - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value 	<p>A1, A2, A3, A4</p>	<p>Maintain Not Present</p> <p>TDD 1 TDD 1.28 Mcps TRUE Not Present</p>
<p>Downlink information for each radio links</p> <ul style="list-style-type: none"> - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - First Individual timeslot info - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols 		<p>TDD</p> <p>TDD 1.28 Mcps TRUE 0 FALSE</p> <p>TDD</p> <p>1 (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite</p> <p>Reference to TS34.108 TRUE Reference to TS34.108 clause 6 Parameter Set 1 Empty</p> <p>The number of an downlink timeslot that has unassigned codes. TRUE</p> <p>1.28 Mcps Default 16 1.28 Mcps TDD QPSK 1</p>

<p><u>- First timeslot channelisation codes</u> <u>- First channelisation code</u></p> <p><u>- Last channelisation code</u></p> <p><u>- Bitmap</u> <u>- CHOICE more timeslots</u></p> <p><u>- Secondary CCPCH info</u> <u>- References to system information blocks</u></p>	<p><u>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set.</u> <u>(j/SF) where j is the highest numbered code that is being assigned in the slot.</u> <u>Bitmap of codes that are assigned in the slot.</u> <u>The presence of this IE depends upon whether the requirements of TS34.108 Parameter Set can be met by the codes that have been assigned in the first timeslot.</u> <u>Not Present</u> <u>Not Present</u></p>
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<u>Condition</u>	<u>Explanation</u>
<u>A1</u>	<u>This IE need for "Non speech in CS"</u>
<u>A2</u>	<u>This IE need for "Speech in CS"</u>
<u>A3</u>	<u>This IE need for "Packet to CELL_DCH from CELL_DCH in PS"</u>
<u>A4</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>
<u>A5</u>	<u>This IE need for "Packet to CELL_FACH from CELL_DCH in PS"</u>
<u>A6</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	<u>Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL RECONFIGURATION message</u>
<u>RRC transaction identifier</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub-IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>Integrity check info</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>- RRC Message sequence number</u>	<u>Not checked</u>
<u>Uplink integrity protection activation info</u>	<u>TDD</u>
<u>CHOICE mode</u>	<u>1.28 Mcps</u>
<u>- CHOICE TDD option</u>	<u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM, (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u>
<u>COUNT-C activation time</u>	<u>Not checked</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark
Message Type	A1, A2, A3, A4, A5, A6	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier		The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
Integrity check info		SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code		SS provides the value of this IE, from its internal counter.
- RRC message sequence number		Not Present
Integrity protection 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 info		Start
- Ciphering mode command		Use one of the supported ciphering algorithms (256+CFN-(CFN MOD 8 + 8))MOD 256
- Ciphering algorithm		Not Present
- Ciphering activation time for DPCH		
- Radio bearer downlink ciphering activation time info		
Activation time	A1, A2, A3, A4	(256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time	A5, A6	Not Present
New U-RNTI		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, A4, A5, A6	Not Present
RRC State indicator	A1, A2, A3, A4	CELL_DCH
RRC State indicator	A5, A6	CELL_FACH
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	A1	
- RAB info		0000 0001B
- RAB identity		CS domain
- CN domain identity		Not Present
- NAS Synchronization Indicator		
- Re-establishment timer		20 seconds
- T314		
- RB information to setup		
- RB identity		10
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
- RB mapping info		
- Information for each multiplexing option		
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- Logical channel identity		7
- CHOICE RLC size list		All
- MAC logical channel priority		1

<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 		<ul style="list-style-type: none"> 1 DCH 6 7
<p>RAB information for setup</p> <ul style="list-style-type: none"> - RAB info - RAB identity - CN domain identity - NAS Synchronisation Indicator - Re-establishment timer - T314 - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option 	<p>A2</p>	<ul style="list-style-type: none"> 0000 0001B CS domain Not Present 20 seconds 10 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE 1 DCH 1 7 All 1 1 DCH 6 7 11 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE 1 DCH 2 8 All 1 1 DCH 7 8 (This IE is needed for 12.2 kbps and 10.2 kbps) 12 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE

<ul style="list-style-type: none"> - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 		<ul style="list-style-type: none"> 1 DCH 3 9 All 1 1 DCH 8 9
<p>RAB information for setup</p> <ul style="list-style-type: none"> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - T314 - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - SDU discard mode - MAX_DAT 	<p>A3, A4</p>	<ul style="list-style-type: none"> 0000 0001B PS domain Not Present 20 seconds 20 Not Present RLC info AM RLC No Discard 15
<ul style="list-style-type: none"> - Transmission window size - Timer_RST - Max_RST - Polling info - Timer_poll_prohibit - Timer_poll - Poll_PDU - Poll_SDU - Last transmission PDU poll - Last retransmission PDU poll - Poll_Windows - Timer_poll_periodic - CHOICE Downlink RLC mode - In-sequence delivery - Receiving window size - Downlink RLC status info - Timer_status_prohibit - Timer_EPC - Missing PDU indicator - Timer_STATUS_periodic 		<ul style="list-style-type: none"> 128 500 4 200 200 Not Present 1 TRUE TRUE 99 Not Present AM RLC TRUE 128 200 Not Present TRUE Not Present
<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 		<ul style="list-style-type: none"> Not Present 1 DCH 1 7 All 1 1 DCH 6 7
<p>RAB information for setup</p> <ul style="list-style-type: none"> - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer 	<p>A5, A6</p>	<ul style="list-style-type: none"> (AM DTCH for PS domain) 0000 0001B PS domain Not Present

<ul style="list-style-type: none"> - T314 - RB information to setup - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT 		<p>20 seconds</p> <p>20</p> <p>Not Present</p> <p>RLC info</p> <p>AM RLC</p> <p>No Discard</p> <p>15</p>
<ul style="list-style-type: none"> - Timer_MRW - MaxMRW 		
<ul style="list-style-type: none"> - Transmission window size 		128
<ul style="list-style-type: none"> - Timer_RST 		500
<ul style="list-style-type: none"> - Max_RST 		4
<ul style="list-style-type: none"> - Polling info 		
<ul style="list-style-type: none"> - Timer_poll_prohibit 		200
<ul style="list-style-type: none"> - Timer_poll 		200
<ul style="list-style-type: none"> - Poll_PDU 		Not Present
<ul style="list-style-type: none"> - Poll_SDU 		1
<ul style="list-style-type: none"> - Last transmission PDU poll 		TRUE
<ul style="list-style-type: none"> - Last retransmission PDU poll 		TRUE
<ul style="list-style-type: none"> - Poll_Windows 		99
<ul style="list-style-type: none"> - Timer_poll_periodic 		Not Present
<ul style="list-style-type: none"> - CHOICE Downlink RLC mode 		AM RLC
<ul style="list-style-type: none"> - In-sequence delivery 		TRUE
<ul style="list-style-type: none"> - Receiving window size 		128
<ul style="list-style-type: none"> - Downlink RLC status info 		
<ul style="list-style-type: none"> - Timer_status_prohibit 		200
<ul style="list-style-type: none"> - Timer_EPC 		Not Present
<ul style="list-style-type: none"> - Missing PDU indicator 		TRUE
<ul style="list-style-type: none"> - Timer_STATUS_periodic 		Not Present
<ul style="list-style-type: none"> - RB mapping info 		
<ul style="list-style-type: none"> - Information for each multiplexing option 		Not Present
<ul style="list-style-type: none"> - RLC logical channel mapping indicator 		1
<ul style="list-style-type: none"> - Number of uplink RLC logical channels 		RACH
<ul style="list-style-type: none"> - Uplink transport channel type 		7
<ul style="list-style-type: none"> - Logical channel identity 		Explicit
<ul style="list-style-type: none"> - CHOICE RLC size list 		Reference to TS34.108 clause 6 Parameter Set
<ul style="list-style-type: none"> - RLC size index 		6
<ul style="list-style-type: none"> - MAC logical channel priority 		6
<ul style="list-style-type: none"> - Downlink RLC logical channel info 		
<ul style="list-style-type: none"> - Number of downlink RLC logical channels 		1
<ul style="list-style-type: none"> - Downlink transport channel type 		FACH/PCH
<ul style="list-style-type: none"> - Logical channel identity 		6
<p>RB information to be affected</p>	A1, A2, A3, A4	(UM DCCH for RRC)
<ul style="list-style-type: none"> - RB identity 		1
<ul style="list-style-type: none"> - RB mapping info 		
<ul style="list-style-type: none"> - Information for each multiplexing option 		Not Present
<ul style="list-style-type: none"> - RLC logical channel mapping indicator 		1
<ul style="list-style-type: none"> - Number of uplink RLC logical channels 		DCH
<ul style="list-style-type: none"> - Uplink transport channel type 		5
<ul style="list-style-type: none"> - UL Transport channel identity 		1
<ul style="list-style-type: none"> - Logical channel identity 		All
<ul style="list-style-type: none"> - CHOICE RLC size list 		1
<ul style="list-style-type: none"> - MAC logical channel priority 		1
<ul style="list-style-type: none"> - Downlink RLC logical channel info 		
<ul style="list-style-type: none"> - Number of downlink RLC logical channels 		1
<ul style="list-style-type: none"> - Downlink transport channel type 		DCH
<ul style="list-style-type: none"> - DL DCH Transport channel identity 		10
<ul style="list-style-type: none"> - Logical channel identity 		1
<p>RB information to be affected</p>	A1, A2, A3, A4	(AM DCCH for RRC)
<ul style="list-style-type: none"> - RB identity 		2
<ul style="list-style-type: none"> - RB mapping info 		
<ul style="list-style-type: none"> - Information for each multiplexing option 		Not Present
<ul style="list-style-type: none"> - RLC logical channel mapping indicator 		

<ul style="list-style-type: none"> - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 		<ul style="list-style-type: none"> 1 DCH 5 2 All 2 1 DCH 10 2
<p><u>RB information to be affected</u></p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	<p>A1, A2, A3, A4</p>	<p>(AM DCCH for NAS_DT High priority)</p> <ul style="list-style-type: none"> 3 Not Present 1 DCH 5 3 All 3 1 DCH 10 3
<p><u>RB information to be affected</u></p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	<p>A1, A2, A3, A4</p>	<p>(AM DCCH for NAS_DT Low priority)</p> <ul style="list-style-type: none"> 4 Not Present 1 DCH 5 4 All 4 1 DCH 10 4
<p><u>RB information to be affected</u></p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 	<p>A5, A6</p>	<p>(UM DCCH for RRC)</p> <ul style="list-style-type: none"> 1 Not Present 1 RACH 1 Explicit Reference to TS34.108 clause 6 Parameter Set 2 1 FACH/PCH 1
<p><u>RB information to be affected</u></p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type 	<p>A5, A6</p>	<p>(AM DCCH for RRC)</p> <ul style="list-style-type: none"> 2 Not Present 1 RACH

<ul style="list-style-type: none"> - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>2</p> <p>Explicit</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>3</p>
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 		<p>1</p> <p>FACH/PCH</p> <p>2</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 	A5, A6	<p>(AM DCCH for NAS_DT High priority)</p> <p>3</p> <p>Not Present</p> <p>1</p> <p>RACH</p> <p>3</p> <p>Explicit</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>4</p> <p>1</p> <p>FACH/PCH</p> <p>3</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 	A5, A6	<p>(AM DCCH for NAS_DT Low priority)</p> <p>4</p> <p>Not Present</p> <p>1</p> <p>RACH</p> <p>4</p> <p>Explicit</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>5</p> <p>1</p> <p>FACH/PCH</p> <p>4</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 	A5, A6	<p>(TM BCCH for RRC)</p> <p>6</p> <p>1</p> <p>FACH/PCH</p> <p>5</p> <p>Not Present</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity - Downlink RLC logical channel info 	A5 or A6	<p>(TM PCCH for RRC)</p> <p>7</p> <p>1</p> <p>FACH/PCH</p> <p>1</p> <p>Not Present</p>
<p>Downlink counter synchronisation info</p>		Not Present
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - TFCS ID - Shared Channel Indicator - UL TFCS - CHOICE TFCI signalling - TFCI Field 1 information 	A1, A2,A3, A4	<p>Not Present</p> <p>TDD</p> <p>1</p> <p>FALSE</p> <p>Normal</p>

<ul style="list-style-type: none"> - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information - TFC subset - CHOICE Subset representation - Allowed Transport Format combination list 		<p>Complete</p> <p>Refer to TS34.108 clause 6.10.3.4</p> <p>Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Allowed transport format combination list</p> <p>Refer to TS34.108 clause 6 Parameter Set</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - TFC subset - Allowed Transport Format combination - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE TFCS Size - CTFC information - CHOICE mode - Individual UL CCTrCH information 	<p>A5, A6</p>	<p>(This IE is repeated for TFC number.)</p> <p>0 to MaxTFCvalue-1 (MaxTFCValue is refer to TS34.108 clause 6 Parameter Set.)</p> <p>(This IE is repeated for TFC number.)</p> <p>Normal</p> <p>Number of used bits must be enough to cover all combinations of CTFC from TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Not Present</p> <p>TDD</p> <p>Not Present</p>
<p>Deleted UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - Transport channel identity 	<p>A4</p>	<p>DCH</p> <p>15</p>
<p>Deleted UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - Uplink transport channel type - UL Transport channel identity 	<p>A5</p>	<p>DCH</p> <p>1</p> <p>DCH</p> <p>5</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>A1, A2, A3, A4</p>	<p>DCH</p> <p>1</p> <p>Dedicated transport channels</p> <p>(This IE is repeated for TFI number)</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List 	<p>A1, A2, A3, A4</p>	<p>If TrCH reconfiguration is executed then this is needed (e.g. The rate of SRB for DCCH is changed.).</p> <p>DCH</p> <p>5</p> <p>Dedicated transport channels</p> <p>(This IE is repeated for TFI number)</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p>

<ul style="list-style-type: none"> - 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 		<p>Not Present Reference to TS34.108 clause 6 Parameter Set ALL Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>A2</p>	<p>DCH 2 Dedicated transport channels (This IE is repeated for TFI number) Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set Not Present Reference to clause 6 Parameter Set All Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TBs and TTI List - Transmission Time Interval - Number of transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>A2</p>	<p>(This IE is needed for 12.2 kbps and 10.2 kbps) DCH 3 (This IE is repeated for TFI number) Dedicated transport channels Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set Not Present Reference to clause 6 Parameter Set All Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set Reference to clause 6 Parameter Set</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - Individual DL CTrCH information - DL TFCS Identity - TFCS Id - Shared Channel Indicator - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure information - CHOICE CTFC Size - CTFC information 	<p>A1,A2,A3,A4</p>	<p>Not Present TDD 1 FALSE Independent (This IE is repeated for TFC number.) Normal Complete Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4</p>
<p>DL Transport channel information common for all transport channel</p>	<p>A5, A6</p>	

<ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE mode - IndividualDL CCTrCH information 		<p>(This IE is repeated for TFC number.) Normal</p> <p>Addition</p> <p style="background-color: #FF00FF;">Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Not Present TDD Not Present</p>
<p>Deleted DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity - Downlink transport channel type - Transport channel identity - Downlink transport channel type - Transport channel identity 	<p>A4</p>	<p>DCH 12 DCH 13 DCH 14</p>
<p>Deleted DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - Downlink transport channel type - Transport channel identity 	<p>A5</p>	<p>DCH 6 DCH 10</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>A1,A2</p>	<p>DCH 6 Same as UL DCH 1</p> <p>-6.3 Not Present</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>A1, A2, A3, A4</p>	<p>If TrCH reconfiguration is executed then this is needed(e.g. The rate of SRB for DCCH is changed.). DCH 10 Explicit</p> <p>Dedicated transport channels (This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p> <p>-6.3 Not Present</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity - CHOICE DL parameters - Uplink transport channel type 	<p>A2</p>	<p>DCH 7 SameAsUL DCH</p>

<ul style="list-style-type: none"> - UL TrCH identity <p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>A2</p>	<p>2</p> <p>(This IE is needed for 12.2 kbps and 10.2 kbps)</p> <p>DCH</p> <p>8</p> <p>SameAsUL</p> <p>DCH</p> <p>3</p> <p>-6.3</p> <p>Not Present</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size <ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks <ul style="list-style-type: none"> - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval <ul style="list-style-type: none"> - Type of channel coding <ul style="list-style-type: none"> - Coding Rate <ul style="list-style-type: none"> - Rate matching attribute <ul style="list-style-type: none"> - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>A3, A4</p>	<p>DCH</p> <p>6</p> <p>Explicit</p> <p>Dedicated transport channels (This IE is repeated for TFI number)</p> <p>Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>-6.3</p> <p>Not Present</p>
<p>Frequency info</p> <ul style="list-style-type: none"> - CHOICE mode - UARFCN (Nt) 		<p>TDD</p> <p>Reference to TS34.108 clause 6 Parameter Set</p>
<p>Maximum allowed UL TX power</p>		<p>30dBm</p>
<p>CHOICE channel requirement</p> <ul style="list-style-type: none"> - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - TPC step size - Primary CCPCH Tx Power - CHOICE mode - Uplink Timing Advance Control - UL CCTrCH List - TFCS Id - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode <ul style="list-style-type: none"> - TFCI coding - Puncturing Limit - Repetition Period 	<p>A1, A3, A4</p>	<p>Uplink DPCH info</p> <p>TDD</p> <p>Reference to TS34.108 Parameter set. Individually signalled</p> <p>1.28 Mcps</p> <p>1 dB</p> <p>Not Present</p> <p>TDD</p> <p>Not Present</p> <p>1</p> <p>(256+CFN-(CFN MOD 8 + 8))MOD 256</p> <p>infinite</p> <p>Reference to TS34.108 clause 6 Parameter Set.</p> <p>Reference to TS34.108 clause 6 Parameter set.</p> <p>Reference to TS34.108 clause 6 Parameter set.</p> <p>Reference to TS34.108 clause 6 Parameter set.</p>

<ul style="list-style-type: none"> - Repetition Length - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code - CHOICE more timeslots 		<p>Reference to TS34.108 clause 6 Parameter set.</p> <p>The number of an uplink timeslot that has unassigned codes.</p> <p>TRUE</p> <p>1.28 Mcps</p> <p>Default</p> <p>16</p> <p>1.28 Mcps TDD</p> <p>QPSK</p> <p>1</p> <p>Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set.</p> <p>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.</p>
<p>CHOICE channel requirement</p> <ul style="list-style-type: none"> - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - TPC step size - Primary CCPCH Tx Power - CHOICE mode - Uplink Timing Advance Control - UL CCTrCH List - TFCS Id - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - Uplink DPCH timeslots and code - First individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - Channelisation code 	<p>A2</p>	<p>Uplink DPCH info</p> <p>TDD</p> <p>Reference to TS34.108 Parameter set.</p> <p>Individually signalled</p> <p>1.28 Mcps</p> <p>1 dB</p> <p>Not Present</p> <p>TDD</p> <p>Not Present</p> <p>1</p> <p>(256+CFN-(CFN MOD 8 + 8))MOD 256</p> <p>infinite</p> <p>Reference to TS34.108 section 6 Parameter set.</p> <p>Reference to TS34.108 section 6 Parameter set.</p> <p>Reference to TS34.108 section 6 Parameter set.</p> <p>Reference to TS34.108 clause 6 Parameter set.</p> <p>Reference to TS34.108 clause 6 Parameter set.</p> <p>The number of an uplink timeslot that has unassigned codes.</p> <p>TRUE</p> <p>1.28 Mcps</p> <p>Default</p> <p>16</p> <p>1.28 Mcps TDD</p> <p>QPSK</p> <p>1</p> <p>Repeated (1,2) for each channelisation code assigned in the slot to meet the needs of TS34.108 clause 6 Parameter Set. (i/SF) where i denotes an unassigned code matching the SF specified in TS34.108 clause 6 Parameter Set.</p>

<p>- CHOICE more timeslots</p>		<p>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.</p>
<p>CHOICE Mode</p>		<p>TDD</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC step size - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH offset value 	<p>A1, A2, A3, A4</p>	<p>Maintain Not Present</p> <p>TDD 1 dB TDD 1.28 Mcps TRUE 0</p>
<p>Downlink information for each radio link list</p> <ul style="list-style-type: none"> - Downlink information for each radio link - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD 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 - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - First channelisation code - Last channelisation code - Bitmap - CHOICE more timeslots - UL CCTrCH TPC List -SCCPCH information for FACH 	<p>A1, A2, A3, A4</p>	<p>TDD</p> <p>TDD 1.28 Mcps TRUE 0 FALSE</p> <p>TDD</p> <p>1</p> <p>(256+CFN-(CFN mod 8 + 8))mod 256 infinite</p> <p>Reference to TS34.108 TRUE Reference to TS34.108 clause 6 Parameter Set 1 Empty</p> <p>The number of a downlink timeslot that has unassigned codes. TRUE</p> <p>1.28 Mcps Default 16 1.28 Mcps TDD QPSK 1</p> <p>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set.. (j/SF) where j is the highest numbered code that is being assigned in the slot. Bitmap of the codes that are being assigned in the slot. The presence of this IE depends upon whether the requirements of TS34.108 clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot.. Not Present Not Present</p>
<p>Downlink information for each radio link list</p>	<p>A5, A6</p>	

<ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL - SCCPCH information for FACH 	<p>TDD</p> <p>TDD</p> <p>1.28 Mcps</p> <p>TRUE</p> <p>0</p> <p>TRUE</p> <p>Not Present</p> <p>Not Present</p>
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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 message: AM or UM

Information Element	Condition	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- message authentication code</u> <u>- RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>		Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	A1, A2, A3, A4	
<u>Activation time</u>	A5, A6	Not Present
<u>New U-RNTI</u>		Not Present
<u>New C-RNTI</u>	A1, A2, A3, A4	Not Present
<u>New C-RNTI</u>	A5, A6	'1010 1010 1010 1010'
<u>New DSCH-RNTI</u>	A1, A2, A3, A4, A5, A6	Not Present
<u>RRC State indicator</u>	A1, A2, A3, A4	CELL_DCH
<u>RRC State indicator</u>	A5, A6	CELL_FACH
<u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>URA identity</u> <u>RAB information to reconfigure list</u>		Not Present Not Present Not Present Not Present
<u>RB information to reconfigure list</u>	A1, A2, A3	Not Present
<u>RB information to reconfigure list</u> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- CHOICE RLC info type</u> <u>- RB mapping info</u> <u>- Information for each multiplexing option</u> <u>- RLC logical channel mapping indicator</u> <u>- Number of uplink RLC logical channels</u> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- Logical channel identity</u> <u>- CHOICE RLC size list</u> <u>- MAC logical channel priority</u> <u>- Downlink RLC logical channel info</u> <u>- Number of downlink RLC logical channels</u> <u>- Downlink transport channel type</u> <u>- DL DCH Transport channel identity</u> <u>- Logical channel identity</u> <u>- RB stop/continue</u> <u>- RB information to reconfigure</u> <u>- RB identity</u> <u>- PDCP info</u> <u>- CHOICE RLC info type</u> <u>- RB mapping info</u> <u>- Information for each multiplexing option</u> <u>- RLC logical channel mapping indicator</u> <u>- Number of uplink RLC logical channels</u> <u>- Uplink transport channel type</u> <u>- UL Transport channel identity</u> <u>- Logical channel identity</u> <u>- CHOICE RLC size list</u> <u>- MAC logical channel priority</u> <u>- Downlink RLC logical channel info</u>	A4	(UM DCCH for RRC) 1 Not Present Not Present Not Present 1 DCH 5 1 All 1 1 DCH 10 1 Not Present (AM DCCH for RRC) 2 Not Present Not Present Not Present 5 DCH 1 2 All 2

<ul style="list-style-type: none"> - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - RLC info - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity - RB stop/continue 		<p>1 DCH 10 2 Not Present (AM DCCH for NAS_DT High priority) 3 Not Present Not Present</p> <p>Not Present</p> <p>1 DCH 5 3 All 3 1 DCH 10 3 Not Present (AM DCCH for NAS_DT Low priority) 4 Not Present Not Present</p> <p>Not Present</p> <p>1 DCH 5 4 All 4</p> <p>1 DCH 10 4 (AM DTCH) 20 Not Present Not Present</p> <p>Not Present</p> <p>1 DCH 1 7 All 1</p> <p>1 DCH 6 7 Not Present</p>
<ul style="list-style-type: none"> RB information to reconfigure list - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator 	<p>A5,A6</p>	<p>(UM DCCH for RRC) 1 Not Present Not Present</p> <p>Not Present</p>

<ul style="list-style-type: none"> - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>1 RACH 1 Explicit list Reference to TS34.108 clause 6 Parameter Set 2</p>
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>1 FACH 1 Not Present (AM DCCH for RRC) 2 Not Present Not Present</p>
<ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>Not Present 1 RACH 2 Explicit List Reference to TS34.108 clause 6 Parameter Set 3</p>
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>1 FACH 2 Not Present (AM DCCH for NAS DT High priority) 3 Not Present Not Present</p>
<ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>Not Present 1 RACH 3 Explicit list Reference to TS34.108 clause 6 Parameter Set 4</p>
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>1 FACH 3 Not Present (AM DCCH for NAS DT Low priority) 4 Not Present Not Present</p>
<ul style="list-style-type: none"> - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index 		<p>Not Present 1 RACH 4 Explicit list Reference to TS34.108 clause 6 Parameter Set 5</p>
<ul style="list-style-type: none"> - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 		<p>1 FACH 4</p>

<ul style="list-style-type: none"> - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - CHOICE Downlink RLC mode - Segmentation Indication - RB mapping info - Information for each multiplexing option - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity - RB stop/continue - RB information to reconfigure - RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - CHOICE Downlink RLC mode - Segmentation Indication - RB mapping info - Information for each multiplexing option - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity - RB stop/continue 		<p>Not Present (AM DTCH) 20 Not Present Not Present</p> <p>Not Present 1 RACH 7 Explicit list Reference to TS34.108 clause 6 Parameter Set 6</p> <p>1 FACH 6 Not Present (TM BCCH for RRC) 5 Not Present RLC info Not Present TM RLC TRUE</p> <p>1 FACH 5 Not Present (TM PCCH for RRC) 7 Not Present RLC info Not Present TM RLC TRUE</p> <p>1 PCH 1 Not Present</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	<p>A1, A2, A3</p>	<p>(UM DCCH for RRC) 1</p> <p>Not Present 1 DCH 5 1 All 1 1 DCH 10 1</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator 	<p>A1, A2, A3</p>	<p>(AM DCCH for RRC) 2</p> <p>Not Present</p>

<ul style="list-style-type: none"> - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 		<ul style="list-style-type: none"> 1 DCH 5 2 All 2 10 DCH 1 2
<ul style="list-style-type: none"> RB information to be affected - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	A1, A2, A3	<ul style="list-style-type: none"> (AM DCCH for NAS_DT High priority) 3 Not Present 1 DCH 5 3 All 3 1 DCH 10 3
<ul style="list-style-type: none"> RB information to be affected - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	A1, A2, A3	<ul style="list-style-type: none"> (AM DCCH for NAS_DT Low priority) 4 Not Present 1 DCH 5 4 All 4 1 DCH 10 4
<ul style="list-style-type: none"> RB information to be affected - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	A1, A2, A3	<ul style="list-style-type: none"> (TM DTCH) 10 Not Present 1 DCH 1 7 All 1 1 DCH 6 7
<ul style="list-style-type: none"> RB information to be affected - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity 	A2	<ul style="list-style-type: none"> (DTCH TM) 11 Not Present 1 DCH 2 8

<ul style="list-style-type: none"> - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 		<p>All</p> <p>1</p> <p>1</p> <p>DCH</p> <p>7</p> <p>8</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	A2	<p>(This IE is needed for 12.2 kbps and 10.2 kbps)</p> <p>12</p> <p>Not Present</p> <p>1</p> <p>DCH</p> <p>3</p> <p>9</p> <p>All</p> <p>1</p> <p>1</p> <p>DCH</p> <p>8</p> <p>9</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - TFCS ID - Shared channel indicator - UL TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - TFC subset - CHOICE Subset representation - Allowed Transport Format combination list 	A1, A2, A3, A4	<p>Not Present</p> <p>TDD</p> <p>1</p> <p>FALSE</p> <p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4</p> <p>Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Allowed transport format combination list</p> <p>Refer to TS34.108 clause 6 Parameter Set</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - CHOICE mode - Individual UL CCTrCH information 	A5, A6	<p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4</p> <p>Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>TDD</p> <p>Not Present</p>
<p>Deleted UL TrCH information</p>	A1, A2, A3	Not Present
<p>Deleted UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - Transport channel identity 	A4	<p>DCH</p> <p>15</p>
<p>Deleted UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - Transport channel identity - Uplink transport channel type - Transport channel identity 	A5	<p>DCH</p> <p>1</p> <p>DCH</p> <p>5</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity 	A1, A2, A3, A4	<p>DCH</p> <p>5</p>

<ul style="list-style-type: none"> - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 		<p>Dedicated transport channels (This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>A4</p>	<p>DCH 1</p> <p>Dedicated transport channels (This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS Identity - TFCS ID - Shared Channel Indicator - CHOICE DL parameters - DL TFCS - CHOICE TFCI signalling - TFCI Field 1 Information - CHOICE TFCI representation - TFCS addition information - CHOICE CTFC size - CTFC information 	<p>A1, A3</p>	<p>Not Present TDD</p> <p>1 FALSE Independent</p> <p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS Identity 	<p>A2, A4</p>	<p>Not Present TDD</p>

<ul style="list-style-type: none"> - TFCS ID - Shared Channel Indicator - CHOICE DL parameters - DL TFCS - CHOICE TFCI signalling - TFCI Field 1 Information - CHOICE TFCI representation - TFCS addition information - CHOICE CTFC size - CTFC information 		<p>1 FALSE Independent Normal Addition Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p>
<ul style="list-style-type: none"> DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE mode - Individual DL CCTrCH information 	<p>A5, A6</p>	<p>(This IE is repeated for TFC number.) Normal Addition Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set Not Present TDD Not Present</p>
<ul style="list-style-type: none"> Deleted DL TrCH information 	<p>A1, A2, A3, A6</p>	<p>Not Present</p>
<ul style="list-style-type: none"> Deleted DL TrCH information - Downlink transport channel type - Transport channel identity - Downlink transport channel type - Transport channel identity - Downlink transport channel type - Transport channel identity 	<p>A4</p>	<p>DCH 12 DCH 13 DCH 14</p>
<ul style="list-style-type: none"> Deleted DL TrCH information - Downlink transport channel type - Transport channel identity - Downlink transport channel type - Transport channel identity 	<p>A5</p>	<p>DCH 6 DCH 10</p>
<ul style="list-style-type: none"> Added or Reconfigured DL TrCH information - Downlink transport channel type - Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH Identity - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>A1</p>	<p>DCH 10 Same as UL DCH 5 -6.3 Not Present</p>
<ul style="list-style-type: none"> Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate 	<p>A2, A3, A4</p>	<p>DCH 10 Independent Dedicated transport channels (This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set Set ALL Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p>

<ul style="list-style-type: none"> - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info 		<p>Set Reference to TS34.108 clause 6 Parameter Set Set Reference to TS34.108 clause 6 Parameter Set Set -6.3 Not Present</p>
<p>Frequency info</p> <ul style="list-style-type: none"> - CHOICE mode - UARFCN (Nt) 		<p>TDD Reference to TS34.108 clause 6</p>
<p>Maximum allowed UL TX power</p>		<p>30dBm</p>
<p>CHOICE channel requirement</p> <ul style="list-style-type: none"> -Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - TPC step size - Primary CCPCCH Tx Power - CHOICE mode - Uplink Timing Advance Control - UL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - Uplink DPCH timeslots and codes - First timeslot information - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot code list - Channelisation Code - CHOICE more timeslots 	<p>A1, A2, A3, A4</p>	<p>Uplink DPCH info</p> <p>TDD Reference to TS34.108 Individually signalled 1.28 Mcps TDD 1 dB Reference to TS34.108 TDD Not Present</p> <p>1</p> <p>(256+CFN-(CFNmod 8 + 8))MOD256 infinite</p> <p>Reference to TS34.108 clause 6 Parameter Set. Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set 1 Empty</p> <p>1.28 Mcps The number of an uplink timeslot that has unassigned codes. TRUE</p> <p>1.28 Mcps Default 16 1.28 Mcps QPSK 1 Repeated (1,2) for each channelisation code that is assigned in the slot. (i/SF) where i denotes the code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends on number of resources specified in TS34.108 section 6 and whether they are being assigned in more than one timeslot.</p>
<p>CHOICE channel requirement</p>	<p>A5, A6</p>	<p>Not Present</p>
<p>CHOICE Mode</p>		<p>TDD</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information -CHOICE mode 	<p>A1, A2, A4</p>	<p>Maintain Not Present</p> <p>TDD</p>

<ul style="list-style-type: none"> -TPC Step Size - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value 		<p>1 TDD 1.28 Mcps TRUE Not Present</p>
<ul style="list-style-type: none"> -Downlink information for each radio link <ul style="list-style-type: none"> - Downlink information for each radio links - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL <ul style="list-style-type: none"> - CHOICE mode - DL CCTrCH List - TFCS ID <ul style="list-style-type: none"> - Activation time - Duration - Common timeslot info <ul style="list-style-type: none"> - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes <ul style="list-style-type: none"> - Individual timeslot info <ul style="list-style-type: none"> - Timeslot number - TFCI existence - Midamble shift and burst type <ul style="list-style-type: none"> - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option <ul style="list-style-type: none"> - Modulation - SS-TPC Symbols - First timeslot channelisation codes <ul style="list-style-type: none"> - First channelisation code - Last channelisation code <ul style="list-style-type: none"> - Bitmap - CHOICE more timeslots - Secondary CCPCH info 	<p>A1, A2, A3, A4</p>	<p>TDD</p> <p>TDD 1.28 Mcps TRUE 0 FALSE</p> <p>TDD</p> <p>1 (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite</p> <p>Reference to TS34.108 TRUE Reference to TS34.108 clause 6 Parameter Set</p> <p>1 Empty</p> <p>The number of a downlink timeslot that has unassigned codes TRUE</p> <p>1.28 Mcps Default 16 1.28 Mcps TDD QPSK 1</p> <p>(i/SF) where i is the lowest numbered code assigned within the timeslot and SF is specified in TS34.108 clause 6 Parameter Set. (j/SF) where j is the highest numbered code assigned in the timeslot. Bitmap of the codes assigned in this timeslot. The presence of this IE depends upon slot allocations used in the test. Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL - SCCPCH information for FACH 	<p>A5, A6</p>	<p>TDD</p> <p>TDD 1.28 Mcps TDD TRUE 0 TRUE Not present Not present</p>

<u>Condition</u>	<u>Explanation</u>
<u>A1</u>	<u>This IE need for "Non speech in CS"</u>
<u>A2</u>	<u>This IE need for "Speech in CS"</u>
<u>A3</u>	<u>This IE need for "Packet to CELL_DCH from CELL_DCH in PS"</u>
<u>A4</u>	<u>This IE need for "Packet to CELL_DCH from CELL_FACH in PS"</u>
<u>A5</u>	<u>This IE need for "Packet to CELL_FACH from CELL_DCH in PS"</u>
<u>A6</u>	<u>This IE need for "Packet to CELL_FACH from CELL_FACH in PS"</u>

Contents of RADIO BEARER RECONFIGURATION COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER RECONFIGURATION COMPLETE message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>CHOICE mode</u>	<u>TDD</u>
<u>- CHOICE TDD option</u>	<u>1.28 Mcps</u>
<u>COUNT-C activation time</u>	<u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of RADIO BEARER RELEASE message: AM or UM (The others of speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	Arbitrarily selects an integer between 0 and 3.
<u>RRC transaction identifier</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
<u>Integrity check info</u>	SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	SS provides the value of this IE, from its internal counter.
- RRC message sequence number	Not Present
<u>Integrity protection mode info</u>	Not Present
<u>Ciphering mode info</u>	Not Present
<u>Activation time</u>	(256+CFN-(CFN MOD 8 + 8))MOD 256
<u>New U-RNTI</u>	Not Present
<u>New C-RNTI</u>	Not Present
<u>New DSCH-RNTI</u>	Not Present
<u>RRC State indicator</u>	CELL_DCH
<u>UTRAN DRX cycle length coefficient</u>	Not Present
<u>CN information info</u>	Not Present
<u>URA identity</u>	Not Present
<u>RAB information to reconfigure list</u>	Not Present
<u>RB information to release</u>	
- RB identity	10
<u>RB information to be affected</u>	(UM DCCH for RRC)
- RB identity	1
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	All
- 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
- Logical channel identity	1
<u>RB information to be affected</u>	(AM DCCH for RRC)
- RB identity	2
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	All
- 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
- Logical channel identity	2
<u>RB information to be affected</u>	(AM DCCH for NAS_DT High priority)
- RB identity	3
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	All
- MAC logical channel priority	3

<ul style="list-style-type: none"> - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity <p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity <p>Downlink counter synchronisation info</p>	<p>1</p> <p>DCH</p> <p>10</p> <p>3</p> <p>(AM DCCH for NAS DT Low priority)</p> <p>4</p> <p>Not Present</p> <p>1</p> <p>DCH</p> <p>5</p> <p>4</p> <p>All</p> <p>4</p> <p>1</p> <p>DCH</p> <p>10</p> <p>4</p> <p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information - TFCS ID - Shared channel indicator - UL TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCI representation - TFCS addition information - CHOICE CTFC Size - CTFC information - TFC subset - CHOICE Subset representation - Allowed Transport Format combination list 	<p>Not Present</p> <p>TDD</p> <p>1</p> <p>FALSE</p> <p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4</p> <p>Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Allowed transport format combination list</p> <p>Refer to TS34.108 clause 6 Parameter Set</p>
<p>Deleted UL TrCH Information</p> <ul style="list-style-type: none"> - Transport channel identity 	<p>1</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>If TrCH reconfiguration is executed then this is needed(e.g. The rate of SRB for DCCH is changed.).</p> <p>DCH</p> <p>5</p> <p>Dedicated transport channels</p> <p>(This IE is repeated for TFI number)</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>(This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p>
<p>CHOICE mode</p>	<p>TDD</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS Identity - TFCS ID 	<p>Not Present</p> <p>TDD</p> <p>1</p>

<ul style="list-style-type: none"> - Shared Channel Indicator - CHOICE DL parameters - DL TFCS - CHOICE TFCI signalling - TFCI Field 1 Information - CHOICE TFCI representation - TFCS addition information - CHOICE CTFC size - CTFC information 	<p>FALSE</p> <p>Independent</p> <p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4</p> <p>Refer to TS34.108 clause 6.10.3.4 Parameter Set</p>
<p>Deleted DL TrCH Information</p> <ul style="list-style-type: none"> - Transport channel identity 	<p>6</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p>If TrCH reconfiguration is executed then this is needed(e.g. The rate of SRB for DCCH is changed.).</p> <p>DCH</p> <p>10</p> <p>Independent</p> <p>Dedicated transport channels (This IE is repeated for TFI number)</p> <p>Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.)</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>-6.3</p> <p>Not Present</p>
<p>Frequency info</p> <ul style="list-style-type: none"> - CHOICE mode - UARFCN (Nt) 	<p>TDD</p> <p>Reference to TS34.108 clause 6 Parameter Set</p>
<p>Maximum allowed UL TX power</p>	<p>30dBm</p>
<p>Uplink DPCH info</p> <ul style="list-style-type: none"> - CHOICE mode - Uplink DPCH power control info - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - TPC step size - Primary CCPCH Tx Power - CHOICE mode - Uplink Timing Advance Control - UL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing Limit - Repetition Period - Repetition Length - Uplink DPCH timeslots and codes - First timeslot information - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration 	<p>TDD</p> <p>Reference to TS34.108</p> <p>Individually signalled</p> <p>1.28 Mcps TDD</p> <p>1</p> <p>Reference to TS34.108</p> <p>TDD</p> <p>Not Present</p> <p>1</p> <p>(256+CFN-(CFN MOD 8 + 8) MOD 256</p> <p>Infinite</p> <p>Reference to TS34.108 clause 6 Parameter Set .</p> <p>Reference to TS34.108 clause 6 Parameter Set.</p> <p>Reference to TS34.108 clause 6 Parameter Set.</p> <p>Reference to TS34.108 clause 6 Parameter Set.</p> <p>Reference to TS34.108 clause 6 Parameter Set.</p> <p>1.28 Mcps</p> <p>The number of an uplink timeslot that has unassigned codes.</p> <p>TRUE</p> <p>1.28 Mcps</p> <p>Default</p> <p>16</p>

<ul style="list-style-type: none"> - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot code list - Channelisation Code - CHOICE more timeslots 	<p>1.28 Mcps QPSK 1 Repeated (1,2) for each channelisation code that is assigned in the timeslot. (i/SF) where i denotes an unassigned code and SF is specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends on number of resources specified in TS34.108 section 6 and whether they are assigned in more than one timeslot.</p>
<p>CHOICE Mode</p>	<p>TDD</p>
<p>Downlink information common for all radio links</p> <ul style="list-style-type: none"> - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information -CHOICE mode -TPC Step Size - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value 	<p>Maintain Not Present TDD 1 TDD 1.28 Mcps TRUE 0</p>
<p>Downlink information for each radio link list</p> <ul style="list-style-type: none"> - Downlink information for each radio links - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Activation time - Duration - Common timeslot info - 2nd Interleaving mode -TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - First channelisation code - Last channelisation code - Bitmap - CHOICE more timeslots - Secondary CCPCH info 	<p>TDD TDD 1.28 Mcps TRUE 0 FALSE TDD 1 (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set 1 Empty The number of a downlink timeslot that has unassigned codes. TRUE 1.28 Mcps Default 16 1.28 Mcps TDD QPSK 1 (i/SF) where i is the lowest numbered unused code that is assigned in the timeslot and SF is specified in TS34.108 Parameter Set. (j/SF) where j is the highest numbered code that is assigned in the timeslot. Bitmap of codes assigned in the slot. The presence of this IE depends upon whether the resources specified in the TS34.108 clause 6 Parameter Set require the use of more than one timeslot. Not Present</p>

Contents of RADIO BEARER RELEASE message: AM or UM (Speech in CS)

<u>Information Element</u>		<u>Value/remark</u>
<u>Message Type</u>	<u>A2, A3, A4, A5, A6, A7, A8</u>	
<u>RRC transaction identifier</u> <u>Integrity check info</u> _____ - <u>message authentication code</u> _____ - <u>RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>		Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub-IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A2, A3, A4, A7, A8</u>	<u>Not Present</u>
<u>New U-RNTI</u>	<u>A5, A6</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>A2, A3, A4</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>A5, A6, A7, A8</u>	<u>'1010 1010 1010 1010'</u>
<u>New DSCH-RNTI</u>	<u>A2, A3, A4, A5, A6, A7, A8</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>A2, A3, A4</u>	<u>CELL_DCH</u>
<u>RRC State indicator</u>	<u>A5, A6, A7, A8</u>	<u>CELL_FACH</u>
<u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>Signalling Connection release indication</u> <u>URA identity</u> <u>RAB information to reconfigure list</u>		<u>Not Present</u> <u>Not Present</u> <u>Not Present</u> <u>Not Present</u> <u>Not Present</u>
<u>RB information to release</u> _____ - <u>RB identity</u>	<u>A2, A7, A8</u>	<u>10</u>
<u>RB information to release</u> _____ - <u>RB identity</u>	<u>A2, A8</u>	<u>11</u>
<u>RB information to release</u> _____ - <u>RB identity</u>	<u>A2, A8</u>	<u>12</u>
<u>RB information to release</u> _____ - <u>RB identity</u>	<u>A3, A4, A5, A6</u>	<u>20</u>
<u>RB information to release</u> _____ - <u>RB identity</u>	<u>A4</u>	<u>6</u>
<u>RB information to release</u> _____ - <u>RB identity</u>	<u>A4</u>	<u>7</u>
<u>RB information to be affected</u> _____ - <u>RB identity</u> _____ - <u>RB mapping info</u> _____ - <u>Information for each multiplexing option</u> _____ - <u>RLC logical channel mapping indicator</u> _____ - <u>Number of uplink RLC logical channels</u> _____ - <u>Uplink transport channel type</u> _____ - <u>UL Transport channel identity</u> _____ - <u>Logical channel identity</u> _____ - <u>CHOICE RLC size list</u> _____ - <u>MAC logical channel priority</u> _____ - <u>Downlink RLC logical channel info</u> _____ - <u>Number of downlink RLC logical channels</u> _____ - <u>Downlink transport channel type</u> _____ - <u>DL DCH Transport channel identity</u> _____ - <u>Logical channel identity</u>	<u>A2, A3, A4</u>	<u>(UM DCCH for RRC)</u> <u>1</u> <u>Not Present</u> <u>1</u> <u>DCH</u> <u>5</u> <u>1</u> <u>All</u> <u>1</u> <u>1</u> <u>DCH</u> <u>10</u> <u>1</u>
<u>RB information to be affected</u> _____ - <u>RB identity</u>	<u>A2, A3, A4</u>	<u>(AM DCCH for RRC)</u> <u>2</u>

<ul style="list-style-type: none"> - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 		<p>Not Present</p> <p>1</p> <p>DCH</p> <p>5</p> <p>2</p> <p>All</p> <p>2</p> <p>1</p> <p>DCH</p> <p>10</p> <p>2</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	<p>A2, A3, A4</p>	<p>(AM DCCH for NAS_DT High priority)</p> <p>3</p> <p>Not Present</p> <p>1</p> <p>DCH</p> <p>5</p> <p>3</p> <p>All</p> <p>3</p> <p>1</p> <p>DCH</p> <p>10</p> <p>3</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - Logical channel identity 	<p>A2, A3, A4</p>	<p>(AM DCCH for NAS_DT Low priority)</p> <p>4</p> <p>Not Present</p> <p>1</p> <p>DCH</p> <p>5</p> <p>4</p> <p>All</p> <p>4</p> <p>1</p> <p>DCH</p> <p>10</p> <p>4</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 	<p>A5, A6, A7, A8</p>	<p>(UM DCCH for RRC)</p> <p>1</p> <p>Not Present</p> <p>1</p> <p>RACH</p> <p>1</p> <p>Explicit list</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>2</p> <p>1</p> <p>FACH</p> <p>1</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option 	<p>A5, A6, A7, A8</p>	<p>(AM DCCH for RRC)</p> <p>2</p>

<ul style="list-style-type: none"> - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 		<p>Not Present</p> <p>1 RACH</p> <p>2 Explicit list Reference to TS34.108 clause 6 Parameter Set</p> <p>3</p> <p>1 FACH</p> <p>2</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 	<p>A5, A6, A7, A8</p>	<p>(AM DCCH for NAS DT High priority)</p> <p>3</p> <p>Not Present</p> <p>1 RACH</p> <p>3 Explicit list Reference to TS34.108 clause 6 Parameter Set</p> <p>4</p> <p>1 FACH</p> <p>3</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - Logical channel identity - CHOICE RLC size list - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL Transport channel identity - Logical channel identity 	<p>A5, A6, A7, A8</p>	<p>(AM DCCH for NAS DT Low priority)</p> <p>4</p> <p>Not Present</p> <p>1 RACH</p> <p>4 Explicit list Reference to TS34.108 clause 6 Parameter Set</p> <p>5</p> <p>1 FACH</p> <p>1 4</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 	<p>A5, A6</p>	<p>(TM BCCH for RRC)</p> <p>6</p> <p>1 FACH</p> <p>5</p>
<p>RB information to be affected</p> <ul style="list-style-type: none"> - RB identity - RB mapping info - Information for each multiplexing option - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - Logical channel identity 	<p>A5, A6</p>	<p>(TM PCCH for RRC)</p> <p>7</p> <p>1 PCH</p> <p>1</p>
<p>Downlink counter synchronisation info</p>		<p>Not Present</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode 	<p>A2, A4</p>	<p>Not Present</p> <p>TDD</p>

<ul style="list-style-type: none"> - Individual UL CCTrCH information - TFCS ID - Shared channel indicator - UL TFCS <ul style="list-style-type: none"> - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - TFC subset - CHOICE Subset representation - Allowed Transport Format combination list 		<p>1 FALSE</p> <p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Allowed transport format combination list Refer to TS34.108 clause 6 Parameter Set</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE mode - Individual UL CCTrCH information <ul style="list-style-type: none"> - TFCS ID - Shared channel indicator - UL TFCS <ul style="list-style-type: none"> - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - TFC subset - CHOICE Subset representation - Allowed Transport Format combination list 	A3	<p>Not Present</p> <p>TDD</p> <p>1 FALSE</p> <p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Allowed transport format combination list Refer to TS34.108 clause 6 Parameter Set</p>
<p>UL Transport channel information for all transport channels</p> <ul style="list-style-type: none"> - PRACH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - CHOICE mode - Individual UL CCTrCH information 	A5, A6, A7, A8	<p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>TDD</p> <p>Not Present</p>
<p>Deleted UL TrCH Information</p> <ul style="list-style-type: none"> - Uplink transport channel type - Transport channel identity 	A2, A5, A7, A8	<p>DCH</p> <p>1</p>
<p>Deleted UL TrCH Information</p> <ul style="list-style-type: none"> - Uplink transport channel type - Transport channel identity 	A2, A8	<p>DCH</p> <p>2</p>
<p>Deleted UL TrCH Information</p> <ul style="list-style-type: none"> - Uplink transport channel type - Transport channel identity 	A2, A8	<p>DCH</p> <p>3</p>
<p>Deleted UL TrCH Information</p> <ul style="list-style-type: none"> - Uplink transport channel type - Transport channel identity 	A3	<p>DCH</p> <p>6</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size 	A2, A3, A4	<p>If TrCH reconfiguration is executed then this is needed(e.g. The rate of SRB for DCCH is changed.).</p> <p>DCH</p> <p>5</p> <p>Dedicated transport channels (This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set</p>

<ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 		<p>(This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set ALL Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS Identity - TFCS ID - Shared Channel Indicator - CHOICE DL parameters - DL TFCS - CHOICE TFCS signalling - TFCS Field 1 Information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC size - CTFC information 	<p>A2, A3, A4</p>	<p>Not Present TDD 1 FALSE Independent Normal Addition Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE TFCS signalling - TFCS Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE mode - Individual DL CCTrCH information 	<p>A5, A6, A7, A8</p>	<p>(This IE is repeated for TFC number.) Normal Addition Number of bits used must be enough to cover all combinations of CTFC from clauses 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set Not Present TDD Not Present</p>
<p>Deleted DL TrCH Information</p> <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity 	<p>A2, A3, A5, A7, A8</p>	<p>DCH 6</p>
<p>Deleted DL TrCH Information</p> <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity 	<p>A2, A8</p>	<p>DCH 7</p>
<p>Deleted DL TrCH Information</p> <ul style="list-style-type: none"> - Downlink transport channel type - Transport channel identity 	<p>A2, A8</p>	<p>DCH 8</p>
<p>Added or Reconfigured DL TrCH information</p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type 	<p>A2, A3, A4</p>	<p>If TrCH reconfiguration is executed then this is needed(e.g. The rate of SRB for DCCH is changed.). DCH 10 Independent Dedicated transport channels</p>

<ul style="list-style-type: none"> - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - DCH quality target - BLER Quality value - Transparent mode signalling info 		<p>(This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set ALL Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set -6.3 Not Present</p>
<p>Frequency info</p> <ul style="list-style-type: none"> - CHOICE mode - UARFCN (Nt) 		<p>TDD Reference to TS34.108 clause 6 Parameter Set</p>
<p>Maximum allowed UL TX power</p>		<p>30dBm</p>
<p>CHOICE channel requirement</p> <ul style="list-style-type: none"> - Uplink DPCH power control info - CHOICE mode - UL Target SIR - CHOICE UL OL PC info - CHOICE TDD option - TPC step size - Primary CCPCH Tx Power - CHOICE mode - Uplink Timing Advance Control - UL CCTrCH List - TFCS ID - Time info - Activation time - Duration - Common timeslot info - 2nd interleaving mode - TFCI coding - Repetition Period - Repetition Length - Uplink DPCH timeslots and codes - First timeslot information - CHOICE TDD option - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble Allocation Mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot code list - Channelisation Code - CHOICE more timeslots 	<p>A2, A2, A4</p>	<p>Uplink DPCH info</p> <p>TDD Reference to TS34.108 Individually signalled 1.28 Mcps TDD 1 Reference to TS34.108 TDD Not Present</p> <p>1</p> <p>$(256+CFN-(CFNmod 8 + 8))MOD256$ Infinite</p> <p>Reference to TS34.108 clause 6. Reference to TS34.108 clause 6. 1 Empty</p> <p>1.28 Mcps The number of an uplink timeslot that has unassigned codes. TRUE</p> <p>1.28 Mcps Default 16 1.28 Mcps QPSK 1 Repeated (1,2) for each channelisation code that is assigned in the slot. (i/SF) where i denotes the code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set. The presence of this IE depends on the number of resources specified in TS34.108 section 6 and whether they are assigned in</p>

		more than one timeslot.
CHOICE Mode		TDD
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information -CHOICE mode -TPC Step Size - CHOICE mode - CHOICE TDD option - TSTD indicator - Default DPCH Offset Value	A2, A3, A4	Maintain Not Present TDD 1 TDD 1.28 Mcps TRUE Not Present
Downlink information for each radio link list - Downlink information for each radio links - CHOICE mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Activation time - Duration - Common timeslot info - 2nd Interleaving mode -TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - First channelisation code - Last channelisation code - Bitmap - CHOICE more timeslots - Secondary CCPCH info	A2, A3, A4	TDD TDD 1.28 Mcps TRUE 0 FALSE TDD 1 (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite Reference to TS34.108 clause 6 Reference to TS34.108 clause 6 Reference to TS34.108 clause 6 1 Empty The number of a downlink timeslot that has unassigned codes. TRUE 1.28 Mcps Default 16 1.28 Mcps TDD QPSK 1 (i/SF) where i is the lowest numbered code assigned in the timeslot and SF is specified in TS34.108 clause 6 arameter Set. (j/SF) where j is the highest numbered code assigned in the timeslot. Bitmap of the codes assigned in the timeslot. The presence of this IE depends upon the number of resources required by the TS34.108 clause 6 Parameter Set and whether they are assigned using more than one timeslot. Not Present
Downlink information common for all radio links - Downlink information for each radio link - Choice mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID	A5, A6, A7, A8	TDD TDD 1.28 Mcps TDD TRUE 0

- Block STTD indicator	FALSE
- Downlink DPCH info for each RL	Not present
- SCCPCH information for FACH	Not present

<u>Condition</u>	<u>Explanation</u>
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 UTRAN MOBILITY INFORMATION message: AM or UM

<u>Information Element</u>	<u>Value/remark</u>
Message Type	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity protection mode info	Not Present
Ciphering mode info	Not Present
New U-RNTI	See the test content
New C-RNTI	See the test content
UE Timers and constants in connected mode	
- T301	2000 milliseconds
- N301	2
- T302	4000 milliseconds
- N302	3
- T304	1000 milliseconds
- N304	3
- T305	60 minutes
- T307	50 seconds
- T308	320 milliseconds
- T309	8 seconds
- T310	320 milliseconds
- N310	5
- T311	500 milliseconds
- T312	5 seconds
- N312	200
- T313	10 seconds
- N313	200
- T314	20 seconds
- T315	30 seconds
- N315	200
- T316	50 seconds
- T317	1800 seconds
CN information info	Not Present
URA identity	Not present
Downlink counter synchronisation info	Not Present

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if it matches the value of the same IE in downlink UTRAN MOBILITY INFORMATION message</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Uplink integrity protection activation info</u>	<u>Not checked</u>
<u>COUNT-C activation time</u>	<u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM, (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u>
<u>Radio bearer uplink ciphering activation time info</u>	<u>Not checked</u>
<u>Uplink counter synchronisation info</u>	<u>Not checked</u>

Contents of RRC CONNECTION REJECT message: UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>Initial UE identity</u>	<u>Set to the UE's IMSI (GSM-MAP) or TMSI.</u>
<u>RRC transaction identifier</u>	<u>Arbitrarily selects an integer between 0 and 3</u>
<u>Rejection cause</u>	<u>Unspecified</u>
<u>Wait Time</u>	<u>0</u>
<u>Redirection info</u>	<u>Not Present</u>

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

Information Element	Value/remark
Message Type	
Initial UE identity	Reference to TS34.108 clause 6 Parameter Set
RRC transaction identifier	Arbitrarily select a integer between 0 and 3
Activation time	Not Present
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	5 (2 to 12)
Capability update requirement	
- UE radio access FDD capability update requirement	FALSE
- UE radio access 3.84Mcps TDD capability update requirement	FALSE
- UE radio access 1.28Mcps TDD capability update requirement	FALSE
- System specific capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	1
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	
- SDU discard mode	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- Logical channel identity	1
- CHOICE RLC size list	Explicit list
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	2
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- 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	200
- Timer_status_prohibit	Not Present
- Timer_EPC	TRUE
- Missing PDU indicator	Not Present
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of uplink RLC logical channels	RACH
- Uplink transport channel type	2
- Logical channel identity	Explicit list
- CHOICE RLC size list	Reference to TS34.108 clause 6 Parameter Set
- RLC size index	3
- MAC logical channel priority	
- Downlink RLC logical channel info	1
- Number of downlink RLC logical channels	FACH
- Downlink transport channel type	2
- Logical channel identity	(AM DCCH for NAS_DT High priority)
Signalling RB information to setup	3
- RB identity	RLC info
- CHOICE RLC info type	AM RLC
- CHOICE Uplink RLC mode	
- Transmission RLC discard	No Discard
- SDU discard mode	15
- MAX_DAT	
- 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	Not Present
- RLC logical channel mapping indicator	1
- Number of uplink RLC logical channels	RACH
- Uplink transport channel type	3
- Logical channel identity	Explicit list
- CHOICE RLC size list	Reference to TS34.108 clause 6 Parameter Set
- RLC size index	4
- MAC logical channel priority	
- Downlink RLC logical channel info	1
- Number of downlink RLC logical channels	FACH
- Downlink transport channel type	3
- Logical channel identity	(AM DCCH for NAS_DT Low priority)
Signalling RB information to setup	4
- RB identity	RLC info
- CHOICE RLC info type	AM RLC
- CHOICE Uplink RLC mode	
- Transmission RLC discard	No Discard
- SDU discard mode	15
- MAX_DAT	

- 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	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- Logical channel identity	4
- CHOICE RLC size list	Explicit list
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- Logical channel identity	4
<u>UL Transport channel information for all transport channels</u>	
- TFC subset	(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	Not Present
- CHOICE mode	FDD
- UL DCH TFCS	Not Present
<u>Added or Reconfigured UL TrCH information</u>	
- Transport channel identity	15
- TFS	
- CHOICE Transport channel type	Common 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.)
- Number of Transport blocks	Reference to TS34.108 clause 6 Parameter Set
- CHOICE mode	TDD
- 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
<u>DL Transport channel information common for all transport channel</u>	
- SCCPCH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE CTFC representation	Complete
- TFCS complete reconfigure information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.3.4

<ul style="list-style-type: none"> - CTFC information - Power offset information - CHOICE DL parameters - DL DCH TFCS <p>Frequency info</p> <ul style="list-style-type: none"> - UARFCN uplink(Nu) - UARFCN downlink(Nd) <p>Maximum allowed UL TX power</p> <p>CHOICE channel requirement</p> <p>Downlink information common for all radio links</p> <p>Downlink information for each radio link list</p> <ul style="list-style-type: none"> - Downlink information for each radio link - Choice mode - Primary CPICH info - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL - Secondary CCPCH info - Primary CPICH usage for channel estimation - Secondary CPICH info - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - References to system information blocks 	<p>Refer to TS34.108 clause 6.10.3.4 Parameter Set</p> <p>Not Present</p> <p>Independent</p> <p>Not Present</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>Reference to TS34.108 clause 6 Parameter Set</p> <p>30dBm</p> <p>Not Present</p> <p>Not Present</p> <p>TDD</p> <p>Set to the default value of cell 1.</p> <p>Not Present</p> <p>Not Present</p> <p>Not present</p> <p>Primary CPICH may be used</p> <p>Not Present</p> <p>Not Present</p> <p>FALSE</p> <p>Reference to clause 6 Parameter Set</p> <p>SF-1(SF is reference to clause 6 Parameter Set)</p> <p>FALSE</p> <p>TRUE</p> <p>Flexible</p> <p>0</p> <p>Not present</p>
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Contents of RRC STATUS message: AM

<u>Information Element</u>	<u>Value/remark</u>
<p><u>Message Type</u></p> <p><u>Integrity check info</u></p> <ul style="list-style-type: none"> - <u>Message authentication code</u> - <u>RRC Message sequence number</u> <p><u>Identification of received message</u></p> <ul style="list-style-type: none"> - <u>Received message type</u> - <u>RRC transaction identifier</u> <p><u>Protocol error information</u></p> <ul style="list-style-type: none"> - <u>Protocol error cause</u> 	<p><u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u></p> <p><u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u></p> <p><u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u></p> <p>Not Present</p> <p><u>Value will be checked.</u></p>

Contents of SECURITY MODE FAILURE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>Checked to see if the value is the identical to the same IE in the downlink SECURITY MODE COMMAND message.</u>
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>Failure cause</u>	<u>Value will be checked</u>

Contents of TRANSPORT CHANNEL RECONFIGURATION message: AM or UM

Information Element	Condition	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- message authentication code</u> <u>- RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>Activation time</u>	<u>A1, A2, A3, A4, A5, A6</u>	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not Present (256+CFN-(CFN MOD 8 + 8))MOD 256
<u>Activation time</u>	<u>A1, A2, A3, A4</u>	<u>Not Present</u>
<u>Activation time</u>	<u>A5, A6</u>	<u>Not Present</u>
<u>New U-RNTI</u>		<u>Not Present</u>
<u>New C-RNTI</u>	<u>A1, A2, A3, A4</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>A5, A6</u>	<u>'1010 1010 1010 1010'</u>
<u>New DSCH-RNTI</u>	<u>A1, A2, A3, A4, A5, A6</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>A1, A2, A3, A4</u>	<u>CELL_DCH</u>
<u>RRC State indicator</u>	<u>A5, A6</u>	<u>CELL_DCH should this be CELL_FACH ??? because it indicates the state that is to be entered.</u>
<u>UTRAN DRX cycle length coefficient</u> <u>CN information info</u> <u>URA identity</u> <u>Downlink counter synchronisation info</u>		Not Present Not Present Not Present Not Present
<u>UL Transport channel information for all transport channels</u> <u>- PRACH TFCS</u> <u>- CHOICE mode</u> <u>- Individual UL CCTrCH information</u> <u>- TFCS ID</u> <u>- Shared channel indicator</u> <u>- UL TFCS</u> <u>- CHOICE TFCI signalling</u> <u>- TFCI Field 1 information</u> <u>- CHOICE TFCS representation</u> <u>- TFCS addition information</u> <u>- CHOICE CTFC Size</u> <u>- CTFC information</u> <u>- TFC subset</u> <u>- CHOICE Subset representation</u> <u>- Allowed Transport Format combination list</u>	<u>A1, A2, A3, A4</u>	Not Present <u>TDD</u> 1 <u>FALSE</u> <u>Normal</u> <u>Addition</u> Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set Allowed transport format combination list Refer to TS34.108 clause 6 Parameter Set
<u>UL Transport channel information for all transport channels</u> <u>- PRACH TFCS</u> <u>- CHOICE TFCI signalling</u> <u>- TFCI Field 1 information</u> <u>- CHOICE TFCS representation</u> <u>- TFCS addition information</u> <u>- CHOICE CTFC Size</u> <u>- CTFC information</u> <u>- CHOICE mode</u> <u>- Individual UL CCTrCH information</u>	<u>A5, A6</u>	Normal <u>Addition</u> Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set <u>TDD</u> Not Present
<u>Added or Reconfigured UL TrCH information</u>	<u>A1, A2, A3, A4</u>	

<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel List - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 		<p>DCH 5</p> <p>Dedicated transport channels (This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p>
<p>Added or Reconfigured UL TrCH information</p> <ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks - CHOICE Logical Channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<p>A4</p>	<p>DCH 1</p> <p>Dedicated transport channels (This IE is repeated for TFI number) Reference to TS34.108 clause 6 Parameter Set (This IE is repeated for TFI number.) Not Present Reference to TS34.108 clause 6 Parameter Set ALL</p> <p>Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set Reference to TS34.108 clause 6 Parameter Set</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - Individual DL CCTrCH information - DL TFCS Identity - TFCS ID - Shared Channel Indicator - CHOICE DL parameters - DL TFCS - CHOICE TFCI signalling - TFCI Field 1 Information - CHOICE TFCI representation - TFCS addition information - CHOICE CTFC size - CTFC information 	<p>A1, A2, A3, A4</p>	<p>Not Present TDD</p> <p>1 FALSE</p> <p>Independent</p> <p>Normal</p> <p>Addition</p> <p>Refer to TS34.108 clause 6.10.3.4 Refer to TS34.108 clause 6.10.3.4 Parameter Set</p>
<p>DL Transport channel information common for all transport channel</p> <ul style="list-style-type: none"> - SCCPCH TFCS 	<p>A5, A6</p>	<p>Not Present</p>

<ul style="list-style-type: none"> - CHOICE mode - Individual DL CCTrCH information 		<p><u>TDD</u> <u>Not Present</u></p>
<p><u>Added or Reconfigured DL TrCH information</u></p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH Identity - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p><u>A1, A2</u></p>	<p><u>DCH</u> <u>10</u> <u>Same as UL</u> <u>DCH</u> <u>5</u> <u>-6.3</u> <u>Not Present</u></p>
<p><u>Added or Reconfigured DL TrCH information</u></p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters <p><u>- TFS</u></p> <ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size <p><u>- Number of TBs and TTI List</u></p> <ul style="list-style-type: none"> - Transmission Time Interval - Number of Transport blocks <p><u>- CHOICE Logical Channel list</u></p> <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval <p><u>- Type of channel coding</u></p> <p><u>- Coding Rate</u></p> <p><u>- Rate matching attribute</u></p> <p><u>- CRC size</u></p> <ul style="list-style-type: none"> - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p><u>A3, A4</u></p>	<p><u>DCH</u> <u>10</u> <u>Independent</u> <u>Dedicated transport channels</u> <u>(This IE is repeated for TFI number)</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>ALL</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>-6.3</u> <u>Not Present</u></p>
<p><u>Added or Reconfigured DL TrCH information</u></p> <ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC Size <p><u>- Number of TBs and TTI List</u></p> <ul style="list-style-type: none"> - Transmission Time Interval - Number of Transport blocks <p><u>- CHOICE Logical Channel list</u></p> <ul style="list-style-type: none"> - Semi-static Transport Format information - Transmission time interval <p><u>- Type of channel coding</u></p> <p><u>- Coding Rate</u></p> <p><u>- Rate matching attribute</u></p> <p><u>- CRC size</u></p> <ul style="list-style-type: none"> - DCH quality target - BLER Quality value - Transparent mode signalling info 	<p><u>A4</u></p>	<p><u>DCH</u> <u>6</u> <u>Independent</u> <u>Dedicated transport channels</u> <u>(This IE is repeated for TFI number)</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>(This IE is repeated for TFI number.)</u> <u>Not Present</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>ALL</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>Reference to TS34.108 clause 6 Parameter</u> <u>Set</u> <u>-6.3</u> <u>Not Present</u></p>

<p><u>Frequency info</u> <u>- CHOICE mode</u> <u>- UARFCN (Nt)</u></p>		<p><u>TDD</u> <u>Reference to TS34.108 clause 6</u></p>
<p><u>Maximum allowed UL TX power</u> <u>CHOICE channel requirement</u> <u>-Uplink DPCH power control info</u> <u>- CHOICE mode</u> <u>- UL Target SIR</u> <u>- CHOICE UL OL PC info</u> <u>- CHOICE TDD option</u> <u>- TPC step size</u> <u>- Primary CCPCH Tx Power</u> <u>- CHOICE mode</u> <u>- Uplink Timing Advance Control</u> <u>- UL CCTrCH List</u> <u>- TFCS ID</u> <u>- Time info</u> <u>- Activation time</u> <u>- Duration</u> <u>- Common timeslot info</u> <u>- 2nd interleaving mode</u> <u>- TFCI coding</u> <u>- Repetition Period</u> <u>- Repetition Length</u> <u>- Uplink DPCH timeslots and codes</u> <u>- First timeslot information</u> <u>- CHOICE TDD option</u> <u>- Timeslot number</u> <u>- TFCI existence</u> <u>- Midamble shift and burst type</u> <u>- CHOICE TDD option</u> <u>- Midamble Allocation Mode</u> <u>- Midamble configuration</u> <u>- CHOICE TDD option</u> <u>- Modulation</u> <u>- SS-TPC Symbols</u> <u>- First timeslot code list</u> <u>- Channelisation Code</u> <u>- CHOICE more timeslots</u></p>	<p><u>A1, A2, A3,</u> <u>A4</u></p>	<p><u>30dBm</u> <u>Uplink DPCH info</u> <u>TDD</u> <u>Reference to TS34.108</u> <u>Individually signalled</u> <u>1.28 Mcps TDD</u> <u>1</u> <u>Reference to TS34.108</u> <u>TDD</u> <u>Not Present</u> <u>1</u> <u>(256+CFN-(CFNmod 8 + 8))mod 256</u> <u>Infinite</u> <u>Reference to TS34.108 clause 6 Parameter Set</u> <u>Reference to TS34.108 clause 6 Parameter Set</u> <u>1</u> <u>Empty</u> <u>1.28 Mcps</u> <u>The number of an uplink timeslot that has unassigned codes.</u> <u>TRUE</u> <u>1.28 Mcps</u> <u>Default</u> <u>16</u> <u>1.28 Mcps</u> <u>QPSK</u> <u>1</u> <u>Repeated (1,2) for each code that is assigned within the timeslot.</u> <u>(i/SF) where i denotes the number of the assigned code and SF is specified in TS34.108 clause 6 Parameter Set.</u> <u>The presence of this IE depends on number of resources specified in TS34.108 section 6 and whether they are assigned in more than one slot.</u></p>
<p><u>CHOICE Mode</u></p>		<p><u>TDD</u></p>
<p><u>Downlink information common for all radio links</u> <u>- Downlink DPCH info common for all RL</u> <u>- Timing indicator</u> <u>- CFN-targetSFN frame offset</u> <u>- Downlink DPCH power control information</u> <u>-CHOICE mode</u> <u>-TPC Step Size</u> <u>- CHOICE mode</u> <u>- CHOICE mode</u> <u>- CHOICE TDD option</u> <u>- TSTD indicator</u> <u>- Default DPCH Offset Value</u></p>	<p><u>A1, A2, A3,</u> <u>A4</u></p>	<p><u>Maintain</u> <u>Not Present</u> <u>TDD</u> <u>1</u> <u>TDD</u> <u>TDD</u> <u>1.28 Mcps</u> <u>TRUE</u> <u>0</u></p>
<p><u>Downlink information for each radio link list</u> <u>- Downlink information for each radio links</u> <u>- CHOICE mode</u> <u>- Primary CCPCH info</u></p>	<p><u>A1, A2, A3,</u> <u>A4</u></p>	<p><u>TDD</u></p>

<ul style="list-style-type: none"> - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL - CHOICE mode - DL CCTrCH List - TFCS ID - Activation time - Duration - Common timeslot info - 2nd Interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Downlink DPCH timeslots and codes - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option - Midamble allocation mode - Midamble configuration - CHOICE TDD option - Modulation - SS-TPC Symbols - First timeslot channelisation codes - First channelisation code - Last channelisation code - Bitmap - CHOICE more timeslots - Secondary CCPCH info 		<p>TDD 1.28 Mcps FALSE 0 FALSE</p> <p>TDD 1 (256+CFN-(CFN MOD 8 + 8))MOD 256 Infinite</p> <p>Reference to TS34.108 clause 6 Reference to TS34.108 clause 6 Reference to TS34.108 clause 6 1 Empty</p> <p>The number of a downlink timeslot that has unassigned codes. TRUE</p> <p>1.28 Mcps Default 16 1.28 Mcps TDD QPSK 1</p> <p>(i/SF) where i is the lowest numbered code assigned within the slot and SF is specified in the TS34.108 clause 6 Parameter Set. (j/SF) where j is the highest numbered code assigned in the timeslot. Bitmap of codes assigned in the timeslot. The presence of this IE depends upon the number of resources required by the TS34.108 clause 6 Parameter Set and whether they are allocated in more than one slot. Not Present</p>
<ul style="list-style-type: none"> - Downlink information for each radio link list - Downlink information for each radio link - Choice mode - Primary CCPCH info - CHOICE mode - CHOICE TDD option - TSTD indicator - Cell parameters ID - Block STTD indicator - Downlink DPCH info for each RL - SCCPCH information for FACH 	<p>A5, A6</p>	<p>TDD Set to the default value of cell 1. TDD 1.28 Mcps TDD TRUE 0 TRUE Not present Not present</p>

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Uplink integrity protection activation info</u> <u>CHOICE mode</u> <u>- CHOICE TDD option</u> <u>COUNT-C activation time</u> <u>Radio bearer uplink ciphering activation time info</u> <u>Uplink counter synchronisation info</u>	<u>Checked to see if the value is identical to the same IE in the downlink TRANSPORT CHANNEL RECONFIGURATION message</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u> <u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u> <u>Not checked</u> <u>TDD</u> <u>1.28 Mcps</u> <u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transiting to CELL_DCH state after the reconfiguration procedure. Else, this IE is absent.</u> <u>Not checked</u> <u>Not checked</u>

Contents of TRANSPORT FORMAT COMBINATION CONTROL message: AM or UM (in CELL_DCH)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>CHOICE mode</u> <u>- TFCS Id</u> <u>- Shared Channel Indicator</u> <u>DPCH TFCS in Uplink</u> <u>- Minimu allowed Transport format combination index</u>	<u>Arbitrarily selects an integer between 0 and 3</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.</u> <u>SS calculates the value of MAC-I for this message and writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter.</u> <u>TDD</u> <u>1</u> <u>FALSE</u> <u>0 (The TFC is constructed from ALL TF0)</u>

Contents of UE CAPABILITY ENQUIRY message: AM or UM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u>	<u>Arbitrarily selects an integer between 0 and 3</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter.</u>
<u>- Message authentication code</u>	
<u>- RRC Message sequence number</u>	
<u>Capability update requirement</u>	
<u>- UE radio access FDD capability update requirement</u>	<u>FALSE</u>
<u>- UE radio access 3.84 Mcps TDD capability update requirement</u>	<u>FALSE</u>
<u>- UE radio access 1.28 Mcps TDD capability update requirement</u>	<u>TRUE</u>
<u>- System specific capability update requirement list</u>	<u>UE only supports 1 system</u>
<u>- System specific capability update requirement</u>	<u>GSM</u>

Contents of UE CAPABILITY INFORMATION message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u>	<u>Checked to see if the value is identical to the same IE in the downlink UE CAPABILITY ENQUIRY message.</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u>
<u>Integrity check info</u>	
<u>- Message authentication code</u>	<u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u>
<u>- RRC Message sequence number</u>	<u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u>
<u>UE radio access capability</u>	<u>Value will be checked. Stated capability must be compatible with 34.123-2 (ICS statements) and the user settings</u>
<u>- Access stratum release indicator</u>	
<u>- PDCP Capability</u>	
<u>- RLC Capability</u>	
<u>- Transport channel capability</u>	
<u>- RF Capability</u>	
<u>- Physical channel capability</u>	
<u>- UE multi-mode/multi-RAT capability</u>	
<u>- Security capability</u>	
<u>- UE positioning capability</u>	
<u>- Measurement capability</u>	
<u>UE system specific capability</u>	
<u>-Inter-RAT UE radio access capability</u>	<u>Choice and value will be checked. UE must include the classmark information for the supported RAT</u>

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 INFORMATION message.
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- Message authentication code	
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.

Contents of URA UPDATE message: TM

Information Element	Value/remark
Message Type	
U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	Checked to see if it is absent
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.
- Message authentication code	This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.
- RRC Message sequence number	This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.
URA update cause	See the test content
Protocol error indicator	Checked to see if it is absent or set to 'FALSE'
Protocol error information	Checked to see if it is absent

Contents of URA UPDATE CONFIRM message: UM

Information Element	Value/remark
Message Type	
U-RNTI	
- SRNC identity	If this message is sent on CCCH, use the following values. Else, this IE is absent.
- S-RNTI	0000 0000 0001B
RRC transaction identifier	0000 0000 0000 0000 0001B
Integrity check info	Arbitrarily selects an integer between 0 and 3
- message authentication code	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
Integrity protection mode info	Not Present
Ciphering mode info	Not Present
New U-RNTI	Not Present
New C-RNTI	Not Present
RRC state indicator	URA_PCH
UTRAN DRX cycle length coefficient	3
CN information info	Not Present
URA identity	See the test content
Downlink counter synchronisation info	Not Present

9.2 Default Message Contents for RF

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2kbps and UE test loop mode 1 without Dummy DCCH transmission are set to default message contents.

Contents of Activate RB Test Mode message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	44h

Contents of Close UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	40h
UE test loop mode	00h
UE test loop mode 1 LB setup	03h 00h F4h 0Ah

Contents of Open UE Test Loop message

Information Element	Value/remark
Protocol discriminator	F (Length 1/2)
Skip indicator	0 (Length 1/2)
Message Type	42h

Contents of PAGING TYPE 1 message: TM (CS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Streaming Call
- CN domain identity	CS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the USIM card
BCCH modification info	Not Present

Contents of PAGING TYPE 1 message: TM (PS)

Information Element	Value/remark
Message Type	
Paging record list	
-Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- IMSI (GSM-MAP)	Set to the same octet string as in the IMSI stored in the USIM card
BCCH modification info	Not Present

Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark
Message Type RRC transaction identifier Integrity check info - message authentication code - RRC message sequence number Integrity protection mode info Ciphering mode info	A1,A3	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. Not Present Not 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 is present with the values of the sub-IEs as stated below. Else, this IE is omitted. Start/restart Use one of the supported ciphering algorithms $(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ Not Present
Ciphering mode command Ciphering algorithm Ciphering activation time for DPCH Radio bearer downlink ciphering activation time info		
Activation time New U-RNTI New C-RNTI <u>New DSCH-RNTI</u>		$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$ Not Present Not Present Not Present
RRC State indicator UTRAN DRX cycle length coefficient CN information info URA identity Signalling RB information to setup		CELL_DCH Not Present Not Present Not Present Not Present
<u>RAB information for setup</u> list - RAB information for setup	A1	
- RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB information to setup list - RB information to setup		0000 0001B CS domain Not Present UseT314
- RB identity - PDCP info - CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - Segmentation indication - CHOICE Downlink RLC mode - Segmentation indication - RB mapping info - Information for each multiplexing option - RLC logical channel mapping indicator - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list - MAC logical channel priority - Downlink RLC logical channel info - Number of downlink RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity		10 Not Present RLC info TM RLC Not Present FALSE TM RLC FALSE Not Present 1 DCH 1 Not Present Configured 47 1 DCH 6 Not Present Not Present

Information Element	Condition	Value/remark
RAB information for setup list - RAB information for setup	A3	
- RAB info		0000 0101B
- RAB identity		PS domain
- CN domain identity		Not Present
- NAS Synchronization Indicator		UseT314
- Re-establishment timer		
- RB information to setup list - RB information to setup		
- RB identity		20
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		AM RLC
- Transmission RLC discard		
- CHOICE SDU discard mode		No Discard
- MAX_DAT		Max DAT retransmissions
- Timer_MRW		154
- MaxMRW		400
		4
- Transmission window size		128
- Timer_RST		500
- Max_RST		4
- Polling info		
- Timer_poll_prohibit		200
- Timer_poll		200
- Poll_PDU		Not Present
- Poll_SDU		1
- Last transmission PDU poll		TRUE
- Last retransmission PDU poll		TRUE
- Poll_Windows		99
- Timer_poll_periodic		Not Present
- CHOICE Downlink RLC mode		AM RLC
- In-sequence delivery		TRUE
- Receiving window size		128
- Downlink RLC status info		
- 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		18
- 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		Configured
- MAC logical channel priority		6
- 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

Information Element	Condition	Value/remark
Downlink counter synchronisation info		Not Present
UL Transport channel information for all transport channels	A1,A3	Not Present
- PRACH TFCS		FDD
- CHOICE mode		Not Present
- TFC subset		Normal
- UL DCH TFCS		Complete reconfiguration
- CHOICE TFCI signalling		
- TFCI Field 1 information		
- CHOICE TFCS representation		
- TFCS complete reconfigure information		
- CHOICE CTFC Size		ctfc2Bit 2 bit CTFC
- ctfc2Bit CTFC information		4 TFCs
- ctfc2bit CTFC		0
- powerOffsetInformation Power offset Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Computed_Gain_Factors
- computedGainFactors		0
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
- 2bit CTFC ctfc2		2
- Power offset		
- powerOffsetInformation Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Computed_Gain_Factors
- computedGainFactors		0
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
- 2bit CTFC ctfc2		1
- Power offset		
- powerOffsetInformation Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Computed_Gain_Factors
- computedGainFactors		0
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
- 2bit CTFC ctfc2		3
- Power offset		
- powerOffsetInformation Information(OP)		
- gainFactorInformation CHOICE Gain Factors		Signalled_Gain_Factors
- CHOICE mode		FDD
- signalledGainFactors		fd
- modeSpecificInfo		
- fd		
- Gain factor β _c		8
- Gain factor β _d		15
- Reference TFC ID		0
- CHOICE mode		FDD
- Power offset P _{D-m}		Not Present
Deleted UL TrCH information list		Not Present
Added or Reconfigured UL TrCH information list	A1, A3	1
- Added or Reconfigured UL TrCH information ul-AddReconfTransChInfoList		4
- Uplink transport channel type		DCH
- UL Transport channel identity		1
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport Format Information		
- RLC size		244 bits
- Number of TBs and TTI List		2
- Transmission Time Interval		Not Present
- Number of Transport blocks		0

Information Element	Condition	Value/remark
<ul style="list-style-type: none"> - 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 - TTI -tti20 -DedicatedDynamicTF-Info -RLC-size -BitMode -sizeType2 -Part1 -Part2 -numberOfTbSizeList -NumberOfTransportBlocks -zero -NumberOfTransportBlocks -one -logicalChannelList -allSizes -semistaticTF-Information -channelCodingType -convolutional -Rate matching attribute -CRC size 		<p>Not Present</p> <p>1</p> <p>ALL</p> <p>20</p> <p>Convolutional</p> <p>1/3</p> <p>256</p> <p>16</p> <p>tti20</p> <p>4</p> <p>BitMode</p> <p>sizeType2</p> <p>((Part1*8)+128+Part2=244bit)</p> <p>14</p> <p>4</p> <p>2</p> <p>zero</p> <p>one</p> <p>allSizes</p> <p>convolutional</p> <p>third</p> <p>256</p> <p>16</p>
<p>CHOICE mode</p> <ul style="list-style-type: none"> - CPCH set ID - Added or Reconfigured TrCH information for DRAC list 	A1, A3	<p>FDD</p> <p>Not Present</p> <p>Not Present</p>
DL Transport channel information common for all transport channel <ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters 	A1,A3	<p>Not Present</p> <p>FDD</p> <p>Same as UL</p>
Deleted DL TrCH information list	A1,A3	Not Present
<p>Added or Reconfigured DL TrCH information list</p> <ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information-dl-AddReconfTransChInfoList(OP) 		<p>1</p> <p>4</p>
<ul style="list-style-type: none"> - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH identity - DCH quality target - BLER Quality value - Transparent mode signalling info 		<p>DCH</p> <p>6</p> <p>Same as UL</p> <p>DCH</p> <p>1</p> <p>-2.0-6.3</p> <p>Not Present</p>
<p>Frequency info</p> <ul style="list-style-type: none"> - UARFCN uplink(Nu) - UARFCN downlink(Nd) 	A1,A3	<p>Not Present</p> <p>Reference to clause 5.1 Test frequencies</p> <p>Reference to clause 5.1 Test frequencies</p>
<p>Maximum allowed UL TX power</p> <ul style="list-style-type: none"> -CHOICE channel requirement - Uplink DPCH power control info 		<p>33dBm</p> <p>Uplink DPCH info</p>
<ul style="list-style-type: none"> - CHOICE mode - DPCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size - CHOICE mode - Scrambling code type 		<p>FDD</p> <p>-6dB</p> <p>1 frame</p> <p>7 frames</p> <p>Algorithm1</p> <p>1dB</p> <p>FDD</p> <p>Long</p>

Information Element	Condition	Value/remark
- Scrambling code number - Number of DPDCH - spreading factor		0 (0 to 16777215) 1 64
- TFCI existence - Number of FBI bit - Puncturing Limit		TRUE Not Present(0) 1
CHOICE Mode - Downlink PDSCH information		FDD Not Present
Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information	A1,A3	Maintain Not Present
- CHOICE mode		FDD
- DPC mode - CHOICE mode - Power offset $P_{Pilot-DPDCH}$ - DL rate matching restriction information - Spreading factor		0 (single) FDD 0 Not Present 128
Number of bits for Pilot bits(SF=128,256)		8
- Fixed or Flexible Position - TFCI existence		Fixed TRUE
- CHOICE SF - Number of bits for Pilot bits		128 8
- CHOICE mode		FDD
- DPCH compressed mode info - TX Diversity mode - SSDT information - Default DPCH Offset Value		Not Present None Not Present Not Present
Downlink information for each per radio link list - Downlink information for each radio link - CHOICE mode	A1,A3	FDD
- Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - PDSCH code mapping - Downlink DPCH info for each RL		100 Not Present Not Present
- CHOICE mode		FDD
- Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - 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		Primary CPICH may be used 0 chips Not Present 1 128 0 No change 0 Not Present Not Present Not Present

Condition	Explanation
A1	This IE is needed for transparent mode. In the case of TX and RX test cases, this IE is selected.
A3	This IE is needed for acknowledged mode.
NOTE:	In the case of Performance Requirement and RRM test cases, A1 or A3 is selected according to the combination of UL and DL channels or test requirements.

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
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.
<ul style="list-style-type: none"> - SRNC identity - S-RNTI 	0000 0000 0001B 0000 0000 0000 0000 0001B
RRC transaction identifier	Arbitrarily selects an integer between 0 and 30
Integrity check info	The presence of this IE depends on 2 factors:
<ul style="list-style-type: none"> - Message authentication code - RRC Message sequence number 	(a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. (b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.
N308	SS calculates the value of MAC-I for this message and writes to this IE.
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 30
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 0000 0000 0000 0001B
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
- UE radio access FDD capability update requirement	TRUE
- UE radio access TDD capability update requirement	FALSE
- 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 4
- CHOICE RLC info type	RLC info
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- SDU discard mode	Timer based no explicit
- Timer discard	50
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Signalling RB information to setup	(AM DCCH for RRC)

Information Element	Value/remark
- RB identity	Not Present ²
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	Max-DAT-retransmissions 154
Timer_MRW	100
MaxMRW	4
- Transmission window size	128 ⁸
- 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 ²⁰⁰
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- Signalling RB information to setup	(AM DCCH for NAS_DT High priority)

Information Element	Value/remark
- RB identity	3Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	Max-DAT-retransmissions 154
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	1288
- 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	200 TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
-UL Transport channel identity	5
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Configured
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)

Information Element	Value/remark
- RB identity	Not present ⁴
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	Max-DAT-retransmissions 154
Timer_MRW	100
MaxMRW	4
- Transmission window size	128 ⁸
- 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 ²⁰⁰
- 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	Configured
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	

Information Element	Value/remark
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	<u>Addition</u> <u>Complete reconfiguration</u>
- TFCS complete reconfigure reconfiguration	
<u>information</u>	
- CHOICE CTFC Size	<u>2 bit CTFC</u> ctfc2Bit
- <u>CTFC information</u> ctfc2Bit	<u>22 TFCS</u>
- <u>2bit CTFC</u> ctfc2	0
- <u>Power offset</u>	
<u>Information</u> powerOffsetInformation(OP)	
- <u>gainFactorInformation</u> <u>CHOICE Gain</u>	computedGainFactors
<u>Factors</u>	
- <u>computedGainFactors</u> <u>Reference TFC ID</u>	0
- <u>CHOICE mode</u>	<u>FDD</u>
- <u>Power offset Pp-m</u> powerOffsetPp-m(OP)	<u>Not Present</u>
- <u>2bit CTFC</u> ctfc2	1
- <u>powerOffsetInformation(OP)</u> <u>Power offset</u>	
<u>Information</u>	
- <u>gainFactorInformation</u> <u>CHOICE Gain</u>	signalledGainFactors
<u>Factors</u>	
- <u>CHOICE mode</u> signalledGainFactors	<u>FDD</u>
- modeSpecificInfo	fd
- fd	
- Gain factor βc	15
- Gain factor βd	15
- Reference TFC ID	0
- <u>CHOICE mode</u>	<u>FDD</u>
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information <u>list</u>	<u>1</u>
- <u>Added or Reconfigured UL TrCH information</u>	
- ul-AddReconfTransChInfoList	<u>4</u>
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- <u>Dynamic Transport Format Information</u>	
- <u>RLC size</u>	<u>96 bits</u>
- <u>Number of TBs and TTI List</u>	<u>2</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>0</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>1</u>
- <u>CHOICE Logical Channel List</u>	<u>ALL</u>
- <u>Semi-static Transport Format Information</u>	
- <u>Transmission time interval</u>	<u>40</u>
- <u>Type of channel coding</u>	<u>Convolutional</u>
- <u>Coding Rate</u>	<u>1/3</u>
- <u>Rate matching attribute</u>	<u>256</u>
- <u>CRC size</u>	<u>12</u>
- TTI	tti40
- tti40	4
- DedicatedDynamicTF-Info	
- RLC size	octetModeType1 ((8*sizeType1)+16=96bit)
- octetModeType1	sizeType1
- sizeType1	40
- numberOfTbSizeList	2

Information Element	Value/remark
-NumberOfTransportBlocks -zero	zero
-NumberOfTransportBlocks -one	one
-logicalChannelList -allSizes	allSizes
-semistaticTF-Information -channelCodingType -convolutional	convolutional third
-Rate matching attribute	256
-CRC size	crc12
DL Transport channel information common for all transport channel - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters	Not Present FDD Same as UL
Added or Reconfigured DL TrCH information list - Added or Reconfigured DL TrCH information	1
-dl-AddReconfTransChInfoList	4
- Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - Uplink transport channel type - UL TrCH Identity - DCH quality target - BLER Quality value	DCH 10 SameasUL DCH 5 -2.0-6.3
Transparent mode signalling info	Not Present
Frequency info	Not present
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	Not present33dBm
Uplink DPCH infoCHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info - DPCCCH power offset - PC Preamble - SRB delay - Power Control Algorithm - TPC step size	-6dB 1 frame 7 frames Algorithm1 1dB
- CHOICE mode	FDD
- Scrambling code type - Scrambling code number - Number of DPDCH - spreading Spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit	Long 0 (0 to 16777215) Not present (1) 256 TRUE Not Present(0) 1
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing Indication - CFN-targetSFN frame offset	Initialise Not present0
CHOICE mode	FDD
- Downlink DPCH power control information	
- CHOICE mode	FDD
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P _{Pilot-DPDCH} - DL rate matching restriction information - Spreading factor	0 Not Present 256

Information Element	Value/remark
-Number of bits for Pilot bits(SF=128,256)	8
- Fixed or Flexible Position	Fixed
- TFCI existence	FALSE
- CHOICE SF	
- Number of bits for Pilot bits	8
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSdT information	Not Present
- Default DPCH Offset Value	Arbitrary set to value 0..306688 by step of 5120
Downlink information for each_per radio links list	
-Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- CHOICE mode	FDD
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value : Default DPCH Offset Value mod 384000 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	256
- Code number	0
- Scrambling code change	Not presentNo 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 SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	Arbitrarily selects an integer between 0 and 3
RRC transaction identifier	
Integrity check info	
- Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
- Ciphering algorithm capability	
- UEA0	<u>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 ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.</u>
- UEA1	<u>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 ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.</u>
- Spare	Spare 2-15 = FALSE
- Integrity protection algorithm capability	000000000000010B (UIA1)
- UIA1	TRUE
- Spare	<u>Spare 0 and Spare 2-15 = FALSE</u>
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	<u>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 algorithm capability" IE in this message.</u>
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	<u>CS or PS Supported domain</u>
UE system specific security capability	Not Checked

3GPP TSG- T1 Meeting #15
Lund, Sweden, 21st, 24th May 2002

T1-020299

3GPP TSG-T1/SIG Meeting #23
Lund, Sweden, 20-23 May 2002

Tdoc T1S-020247r3

CR-Form-v5.1

CHANGE REQUEST

⌘ **34.108 CR 117** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ Corrections to clause 6.1

Source: ⌘ MCI, Ericsson

Work item code: ⌘ TEI

Date: ⌘ 2002-05-10

Category: ⌘ **A**

Release: ⌘ REL-4

Use one of the following categories:

- F** (correction)
- A** (corresponds to a correction in an earlier release)
- B** (addition of feature),
- C** (functional modification of feature)
- D** (editorial modification)

Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

- 2** (GSM Phase 2)
- R96** (Release 1996)
- R97** (Release 1997)
- R98** (Release 1998)
- R99** (Release 1999)
- REL-4** (Release 4)
- REL-5** (Release 5)

Reason for change: ⌘ 1) Agreed in T1SIG#22

-- T1S-020159

The corrections to default message included in this CR are proposed for the following reasons:

- To align with the latest revision of the core specifications
- To introduce information that is typically needed in real network configurations
- To avoid transmission of redundant information (efficiency)

-- T1S-020207

There are some errors and some unrealistic choices in the current default settings of SIB 11 and 12, which are proposed to be corrected.

2) T1SIG#23

- There is an inconsistency for the value of Qqualmin, Qrxlevmin and Maximum allowed UL TX power between table 6.1.1 and SIB 3/4.
- The specified CTFC "10" for SCCPCH is not defined in TS34.108 clause 6.10.2.4.3.3.1.4.
- It is proposed to set to "Not Present" in all MD IEs for UE Timer Value so that default value shall be used.
- N312 from 200 to 1. T312 from 5 to 1.

When a physical dedicated channel establishment is initiated by the UE, the UE starts a timer T312 and waits for layer 1 to indicate N312 successive "in sync" indications. On receiving N312 successive "in sync" indications, the physical channel is considered established and the timer T312 is stopped and reset. If the timer T312 expires before the physical channel is established, the

UE considers this as a "physical channel establishment failure".
Is it necessary to wait for 200 "in sync" indications to determine that the channel is established.

Proposal to change N312 to 1 and T312 to 1. This is also in line with the default values as specified in 25.331.

- N315 from 200 to 1. T313 from 10 seconds to 3 seconds.

In CELL_DCH state, after receiving N313 consecutive "out of sync" indications from layer 1 for the established DPCH physical channel in FDD, and the DPCH associated with mapped DCCHs in TDD, the UE starts timer T313. Upon receiving N315 successive "in sync" indications from layer 1 and upon change of UE state the UE stops and resets timer T313. If T313 expires the UE considers it as a "Radio link failure".

Is it necessary to wait for 200 "in sync" indications to determine that the connection is ok.

Proposal to change N315 to 1 and T313 to 3 seconds. This is also in line with the default values as specified in 25.331.

- T317 from 1800 to 180.

T317 specifies a time, in seconds, for a UE to move from CELL_FACH to idle mode when "out of service area". Currently this is defined as 1800 seconds (30 minutes). This is too long. Proposal to change this to the 25.331 specified default value of 180 seconds.

- SIB3 and SIB4. Change the value of Qhyst1s to 2. A hysteresis value of 0 does not serve any purpose.
- Slimit,SearchRAT is a mandatory IE so insert a value.
- Some elements of the "Access Service Class" list included within IE "PRACH partitioning" have been removed. This change avoids the transmission of redundant information and at the same time verifies the non-trivial "mandatory default" scheme defined for this IE in SIB5 and 6.
- The corrections to the SIB5/6 messages included in this CR are proposed for the following reasons.

- To align with the latest revision of the core specifications

- To introduce information that is typically needed in real network configurations

- To avoid transmission of redundant information (efficiency)

- From viewing the tabular format of the MIB and SB it is difficult to fully envisage how this information appears when laid out in Transport Blocks. It is proposed that a new table is inserted to provide this view.

- There should be more than one cell as New intra-frequency cells in SIB 11 and 12 so that test condition in MM and GMM test case can be actualised.

Summary of change: ☿ 1) Agreed T1SIG#22

-- T1S-020159(with Yellow marker)
SIB 5/ 6 default message

- For FDD primary CCPCH info only includes IE "Tx diversity indicator". In the latest RRC version it is clarified that in case Tx diversity is not used, then FDD Primary CCPCH info IE need not to be included (25.331 clause 10.2.48.8.8). The IE primary CCPCH info for FDD should thus be marked as Not Present to avoid transmission of redundant information (efficiency)
- In TS TS 25.331 the IE "Primary CPICH usage for channel estimation" was removed (replaced by dummy) from IE "Secondary CCPCH info" (for FDD).

Therefore the IE is also removed from the default message

- In TS TS 25.331 the IE secondary CPICH info was removed (replaced by dummy) from IE "Secondary CCPCH info" (for FDD). Therefore the IE is also removed from the default message.

-- T1S-020207(with Yellow marker)

The following corrections are proposed to the default content of SIB11 and 12:

- 1) Cell 1 is the serving cell for the UE in the default environment, and therefore, the IE Cell selection and reselection should not be included for that cell.
- 2) According to the current settings, the "Cell synchronisation information" shall be reported by the UE for the active set cells, and not for the monitored set cells. It is proposed to have the contrary configured, since getting the cell synchronisation information is mainly useful for the monitored cells (when such a cell needs to be added to the active set of the UE), while it does not seem that useful to get it for a cell in the active set.
- 3) The IEs "Reporting deactivation threshold", "Amount of reporting" and "Reporting interval" are not needed for event 1b.
- 4) It is proposed to add event 1c to the default SIBs 11 and 12, since this seems to be the most natural choice to make: if event 1c is not configured, and if the "reporting deactivation threshold" is set to 3 for event 1a, as it is the case with the current settings, in case the UE has three cells in its active set and drifts in an area where the quality of the three cells decreases at the same time (in which case event 1b might never be triggered), UTRAN will never get any information about which cell should be added to the active set of the UE to save the connection.

In SIB 12, the serving cell is not included, since it has already been included in SIB 11.

2) T1SIG#23

The following corrections are added into SIB3 and 4 for FDD.

Qqualmin -20 dB → Reference to table 6.1.1

Qrxlevmin -115 dBm → Reference to table 6.1.1

Maximum allowed UL TX power 33 dBm → Reference to table 6.1.1

The following TFC is removed in SIB5 and 6.

(PCH, FACH for CCCH/DCCH/BCCH, FACH for DTCH) = (TF0, TF2, TF1)

Available SYNC_UL in SIB5 for 1.28 Mcps TDD should be consist of 8bits.

"11111111" → "11111111"

The green marker show the revisions as rev1.

The SIB_POS in MIB an SB1 should be set to multiple of 2.

Change the values of some timers and constants in SIB 1.

Change the value of Qhyst1s to 2 in SIB 3 and 4.

Insert a value for Slimit,SearchRAT in SIB 3 and 4.

The IE "Preamble Retrans Max" is changed from 2 to 4. RSCP measurements have limited accuracy. Therefore a value of 2 is considered to be on the low side; 4 is considered to be a more typical value used in real network configurations in SIB5 and 6.

In 6.1.1 the IE "AICH transmission timing" is changed from 0 to 1. This IE concerns a basic parameter for which a value of 1 may be required in larger cells.

The change ensures that both values are verified in SIB5 and 6.

In SIB 6, subclause 6.1, the TFS for the FACH on which the SRBs are mapped includes 4 TF while the corresponding TFS in SIB 5 only includes 3 TFs. The additional TF included in SIB 6 has been removed since it is not used (considering the CTFC- values) and marked as an alternative configuration in section 6.10.2.4.3.3.1.4.

“Reporting deactivation threshold” for event 1a in SIB11 and SIB12 changed from 3 to 2.

Insert table showing how MIB/SB/SIBs are allocated over one System Information cycle.

To make navigation in 34.108 easire the style of the headings for MIB, SB and SIB tables have been changed to “Heading 7” to achive that the headings appear in table of contents.

The blue marker show the revisions as rev2.

The number of cells is set to 8 from 1and each cell information are included in SIB 11 and 12.

The blue marker show the revisions as rev3.

Consequences if not approved:

- ⌘ 1) Agreed T1SIG#22
 - T1S-020159
 - In case the CR is not approved the test specification will
 - remain misaligned with the latest revision of the core specifications
 - lack information that is typically needed in real network configurations
 - include transmission of redundant information (inefficiency)
 - T1S-020207
- Erroneous/unrealistic default parameter settings of SIB11/12
- 2) T1SIG#23
 - It will remain an inconsistency definition in SIB 3 and 4.
 - It will remain an impossible TFC in SCCPCH.
 - Some strange values for some timers and constants will be In use.
 - MM and GMM test cases cannot work.

Clauses affected:	⌘	6.1, 6.1.1, 6.1.2, 6.1.3,									
Other specs affected:	⌘	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>Other core specifications</td> <td>⌘</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Test specifications</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>O&M Specifications</td> <td></td> </tr> </table>	<input type="checkbox"/>	Other core specifications	⌘	<input type="checkbox"/>	Test specifications		<input type="checkbox"/>	O&M Specifications	
<input type="checkbox"/>	Other core specifications	⌘									
<input type="checkbox"/>	Test specifications										
<input type="checkbox"/>	O&M Specifications										
Other comments:	⌘										

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

<Start of modified section>

6 Reference System Configurations

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

6.1 Simulated network environments

The UE will eventually have to operate in either single mode networks (FDD or TDD) and dual mode networks (FDD+TDD).

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

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

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

6.1.0a Default Master Information Block and Scheduling Block messages

6.1.0a.1 Grouping SIBs for testing

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

6.1.0a.2 SIB configurations

Currently three SIB configurations are used, Configuration 1 is default for both UTRAN/FDD SYSTEM and UTRAN/FDD + GERAN SYSTEM. Configuration 2 is for test cases which need two S_CCCH or two PRACH. Configuration 3 is for inter-RAT handover test cases.

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

6.1.0a.3 SIB default schedule

Block Type	MIB	SB1	SIB1	SIB2	SIB3	SIB4	SIB5	SIB6	SIB7	SIB11	SIB12	SIB18
SIB REP	8	16	64	64	64	64	64	64	16	64	64	64
SEG COUNT	1	1	1	1	1	1	4	4	1	3	3	1

Frame No / SIB POS	<u>0</u>	<u>2</u>	<u>4</u>	<u>6</u>	<u>8</u>	<u>10</u>	<u>12</u>	<u>14</u>
Block Type	MIB	SB1	SIB7	SIB6	MIB	SIB6	SIB6	SIB6
Frame No / SIB POS	<u>16</u>	<u>18</u>	<u>20</u>	<u>22</u>	<u>24</u>	<u>26</u>	<u>28</u>	<u>30</u>
Block Type	MIB	SB1	SIB7/SIB 3	SIB1/SIB 2	MIB	SIB12	SIB12	SIB12
Frame No / SIB POS	<u>32</u>	<u>34</u>	<u>36</u>	<u>38</u>	<u>40</u>	<u>42</u>	<u>44</u>	<u>46</u>
Block Type	MIB	SB1	SIB7/SIB 18	SIB5	MIB	SIB5	SIB5	SIB5
Frame No / SIB POS	<u>48</u>	<u>50</u>	<u>52</u>	<u>54</u>	<u>56</u>	<u>58</u>	<u>60</u>	<u>62</u>
Block Type	MIB	SB1	SIB7/SIB 4		MIB	SIB11	SIB11	SIB11

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

- MIB value tag	1
- Supported PLMN types	
- PLMN type	GSM-MAP
- PLMN identity	
- MCC digit	Set to the same Mobile Country Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MNC digit	Set to the same Mobile Network Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- ANSI-41 Core Network information	Not Present
- References to other system information blocks and scheduling blocks	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value Tag
- Cell Value tag	1
- Scheduling	
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	12
- SIB_POS offset info	Not Present – use default
- SIB type	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	1122
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 1
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	1122
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 2
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	1020
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 3
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	2652
- SIB_POS offset info	Not Present – use default
- SIB type	System Information Type 4
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	1938
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2

- SIB type	System Information Type 5
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Contents of Scheduling Block 1 (FDD and 1.28 Mcps TDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	36
- 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	24
- 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	2958
- 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	1326
- 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	1836
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18

Contents of Scheduling Block 1 (3.84 Mcps TDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	128
- SIB_POS	19
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 5

- Scheduling information	Cell Value tag
- CHOICE Value tag	1
- Cell Value tag	4
- SEG_COUNT	128
- SIB_REP	35
- SIB_POS	
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	
- CHOICE Value tag	Not Present
- SEG_COUNT	1
- SIB_REP	32
- SIB_POS	11
- 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	2
- SIB_REP	128
- SIB_POS	29
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	61
- SIB_POS offset info	
- 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	128
- 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

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6.1.0b Default System Information Block Messages

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

- CN common GSM-MAP NAS system information	
- GSM-MAP NAS system information	00 80H
- CN domain system information	
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00H
- CN domain specific DRX cycle length coefficient	7
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	1E 01H
- CN domain specific DRX cycle length coefficient	7
- UE Timers and constants in idle mode	
-T300	4000 milliseconds
-N300	7
-T312	10 seconds
- N312	2001
- 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 (42000 milliseconds : default value)
- N304	Not Present (32 : default value)
- T305	Not Present (6030 minutes : default value)
- T307	Not Present (5030 seconds : default value)
- T308	Not Present (160320 milliseconds : default value)
- T309	Not Present (85 seconds : default value)
- T310	Not Present (320160 milliseconds : default value)
- N310	Not Present (54 : default value)
- T311	Not Present (2000500 milliseconds : default value)
- T312	Not Present (51 seconds : default value)
- N312	Not Present (2001 : default value)
- T313	Not Present (403 seconds : default value)
- N313	Not Present (20 : default value)
- T314	Not Present (2012 seconds : default value)
- T315	Not Present (30180 seconds : default value)
- N315	Not Present (2001 : default value)
- T316	Not Present (5030 seconds : default value)
- T317	Not Present (1800 seconds : default value)

Contents of System Information Block type 2

- URA identity list	<i>Only 1 URA identity broadcasted</i>
- URA identity	0000 0000 0000 0001B

Contents of System Information Block type 3 (FDD)

- SIB4 indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not Present
- Cell selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not Present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- Slimit,SearchRAT	Not Present
- Qqualmin	Reference to table 6.1.1-20 dB
- Qrxlevmin	Reference to table 6.1.1-115 dBm
- Qhyst1s	0-2 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1-33 dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- SIB4 Indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not present
- Cell selection_and_reselection_quality_measure	CPICH RSCP
- 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,SsearchRAT	Not Present
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping Info	Not present
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	Not present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not Present
- S _{limit,SearchRAT}	Not Present
- Qqualmin	Reference to table 6.1.1-20 dB
- Qrxlevmin	Reference to table 6.1.1-115 dBm
- Qhyst1s	0-2 dB
- Qhyst2s	Not Present
- Treselections	0 seconds
- HCS Serving cell information	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.133dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Access Class Barred	Not barred
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

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

- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	Not Present
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- 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,SsearchRAT	Not Present
- Qrxlevmin	-115 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Intra-frequency cell re-selection indicator	Not present
- T _{barred}	Not present
- Cell Reserved for operator use	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- Access Class Barred0	Not barred
- Access Class Barred1	Not barred
- Access Class Barred2	Not barred
- Access Class Barred3	Not barred
- Access Class Barred4	Not barred
- Access Class Barred5	Not barred
- Access Class Barred6	Not barred
- Access Class Barred7	Not barred
- Access Class Barred8	Not barred
- Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred11	Not barred
- Access Class Barred12	Not barred
- Access Class Barred13	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI +List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	½
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	11
- Gain factor βd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B

- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible

- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- CTFC information	6
- Power offset information	Not Present
- CTFC information	8
- Power offset information	Not Present
- CTFC information	40
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- 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	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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- Alpha	(1/8)
- PRACH Constant Value	-10
- DPCH Constant Value	-10
- PUSCH Constant Value	-10
- UE positioning related parameters	Not Present /REL-4/
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD /REL-4/
- CHOICE SyncCase	Sync Case 2
- Timeslot	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	
- CHOICE SF	SF8
- Channelisation Code List	
- Channelisation Code	8/1
- Channelisation Code	8/2
- Channelisation Code	8/3
- Channelisation Code	8/4
- PRACH Midamble	Direct
- PNBSCH allocation	Not Present /REL-4/
- Transport Channel Identity	15
- RACH TFS	
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set

- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	
- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- 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#2)
- 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#3)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	3.84 Mcps TDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- Persistence scaling factors	
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- 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 nd 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
- TFCI existence	Reference clause 6.10 Parameter Set
- Midamble Shift and burst type	
- CHOICE <i>TDD option</i>	3.84 Mcps TDD
- CHOICE Burst Type	Type 1
- Midamble Allocation Mode	Default midamble
- Midamble configuration burst type 1 and 3	4
- Midamble Shift	Not Present
- CHOICE <i>TDD option</i>	3.84 Mcps TDD
- no data	
- Code List	
- Channelisation Code	
- TFCS	(This IE is repeated for Code number for PCH and FACH)
- Normal	(This IE is repeated for TFC number for PCH and FACH.)
- TFCI Field 1 information	
- CHOICE TFCS representation	Addition
- TFCS addition information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CTFC information	Reference clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Reference clause 6.10 Parameter Set
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set

- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	Reference clause 6.10 Parameter Set
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- PICH info	TDD
- CHOICE <i>mode</i>	16/16
- Channelisation code	0
- Timeslot number	0
- CHOICE <i>TDD option</i>	3.84 Mcps TDD
- CHOICE Burst Type	Type 1
- Midamble Shift	0
- Repetition period/length	64/2
- Offset	0
- Paging indicator length	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	Not Present

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

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	TDD
- PUSCH system information	Not Present
- PDSCH system information	Not Present
- TDD open loop power control	
- Primary CCPCH Tx Power	30 dbm
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- no data	
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- TSTD indicator	FALSE
- Cell parameters ID	Not Present
- Block STTD 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	"11111111"
- UL Target SIR	10 dB
- Power Ramping Step	3 dB
- Max SYNC_UL Transmissions	8
- Mmax	32
- PRACH definition	
- Timeslot number	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Timeslot number	1
- PRACH Channelisation Code List	
- Channelisation Code List	
- Channelisation Code	(8/1)
- Midamble Shift and burst type	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Midamble Allocation Mode	Default midamble
- Midamble configuration	8
- Midamble Shift	Not present
- FPACH info	
- Timeslot number	6
- Channelisation code	(16/16)
- Midamble Shift and burst type	
- CHOICE TDD option	1.28 Mcps TDD /REL-4/
- Midamble Allocation Mode	Common Midamble
- Midamble configuration	8
- Midamble Shift	Not present
- WT	4
- PNBSCH allocation	Not Present /REL-4/
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- RACH TFCS	Not present
- PRACH partitioning	
- Access Service Class	

- ASC Settings	(ASC#0)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" ⁴
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#1)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" ⁴
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#2)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" ⁴
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#3)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" ⁴
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#4)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" ⁴
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#5)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" ⁴
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- ASC Settings	(ASC#6)
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps TDD
- Available SYNC_UL codes indices	"11111111" ⁴
- CHOICE subchannel size	Size1
- Available Subchannels	Null
- Access Service Class	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- AC-to-ASC mapping	
- 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 nd interleaving mode	Frame
- TFCI coding	Reference clause 6.10 Parameter Set
- Puncturing limit	Reference clause 6.10 Parameter Set
- Repetition period	1
- Repetition length	0

- Individual timeslot info	1.28 Mcps TDD
- CHOICE <i>TDD option</i>	0
- Timeslot number	Reference clause 6.10 Parameter Set
- TFCI existence	1.28 Mcps TDD
- Midamble Shift and burst type	Default midamble
- CHOICE <i>TDD option</i>	4
- Midamble Allocation Mode	Not Present
- Midamble configuration	1.28 Mcps TDD
- Midamble Shift	Reference clause 6.10 Parameter Set
- CHOICE <i>TDD option</i>	Reference clause 6.10 Parameter Set
- Modulation	Reference clause 6.10 Parameter Set
- SS-TPC Symbols	Reference clause 6.10 Parameter Set
- Code List	Reference clause 6.10 Parameter Set
- Channelisation Code	Reference clause 6.10 Parameter Set
- TFCS	Reference clause 6.10 Parameter Set
- Normal	
- TFCI Field 1 information	Addition
- CHOICE TFCS representation	
- TFCS addition information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CTFC information	Reference clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- Transport Channel Identity	12 (for PCH)
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	13 (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
- 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	ALL
- Semi-static Transport Format information	
- Transmission time interval	Reference clause 6.10 Parameter Set
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
- CTCH indicator	FALSE
- PICH info	
- CHOICE <i>mode</i>	TDD
- Channelisation code list	
- Channelisation code	(16/1)
- Channelisation code	(16/2)
- Timeslot number	0
- CHOICE <i>TDD option</i>	1.28 Mcps TDD
- Midamble shift and burst type	0
- CHOICE <i>TDD option</i>	1.28 Mcps TDD
- Midamble Allocation Mode	Default midamble
- Midamble configuration	8
- Midamble Shift	Not Present

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

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

- PICH power offset	-5 dB
- CHOICE Mode	FDD
- AICH power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor β _c	11
- Gain factor β _d	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD

- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#1)
- Available signature Start Index	7 (ASC#1)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	Not Present
- ASC Setting	FDD
- CHOICE mode	0 (ASC#2)
- Available signature Start Index	7 (ASC#2)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	FDD
- ASC Setting	0 (ASC#3)
- CHOICE mode	7 (ASC#3)
- Available signature Start Index	'1111'B
- Available signature End Index	Not Present
- Assigned Sub-channel Number	FDD
- ASC Setting	0 (ASC#4)
- CHOICE mode	7 (ASC#4)
- Available signature Start Index	'1111'B
- Available signature End Index	FDD
- Assigned Sub-channel Number	0 (ASC#5)
- ASC Setting	7 (ASC#5)
- CHOICE mode	'1111'B
- Available signature Start Index	Not Present
- Available signature End Index	FDD
- Assigned Sub-channel Number	0 (ASC#6)
- ASC Setting	7 (ASC#6)
- CHOICE mode	'1111'B
- Available signature Start Index	FDD
- Available signature End Index	0 (ASC#7)
- Assigned Sub-channel Number	7 (ASC#7)
- ASC Setting	'1111'B
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)
- Available signature End Index	0.9 (for ASC#3)
- Assigned Sub-channel Number	0.9 (for ASC#4)
- ASC Setting	0.9 (for ASC#5)
- CHOICE mode	0.9 (for ASC#6)
- Available signature Start Index	0.9 (for ASC#7)
- Available signature End Index	Not Present
- Assigned Sub-channel Number	31
- ASC Setting	-10
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping	Not Present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	3dB
- Power Ramp Step	24
- Preamble Retrans Max	2
- RACH transmission parameters	3 slot
- Mmax	10 slot
- NB01 min	3
- NB01 max	FALSE
- AICH info	0
- Channelisation code	0
- STTD indicator	0
- AICH transmission timing	0
- Secondary CCPCH system info	0
- Secondary CCPCH info	0
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE

- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCl Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- CTFC information	6
- Power offset information	Not Present
- CTFC information	8
- Power offset information	Not Present
- CTFC information	10
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240 (PCCH)
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- 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
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

Contents of System Information Block type 7 (FDD)

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

Contents of System Information Block type 7 (TDD)

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

- SIB12 indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	Not present
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	33 dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency cell id	2
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	3
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1

- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	4
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	5
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	6
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	7
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present

- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	8
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	0
- Filter coefficient	CPICH RSCP
- Measurement quantity	Not Present
- Intra-frequency reporting quantity for RACH Reporting	
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	TRUEFALSE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell identity reporting indicator	TRUE
- Cell synchronisation information reporting indicator	FALSETRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode	Event trigger
- CHOICE report criteria	Intra-frequency measurement reporting criteria

- Intra-frequency measurement reporting criteria	
- Parameters required for each event	23 kinds
- Intra-frequency event identity	1a
- Triggering condition 1	Not Present
- Triggering condition 2	Active set cells and monitored set cells
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	32
- Replacement activation threshold	Not Present
- 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
- Intra-frequency event identity	1b
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	Not Present
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4Not Present
- Reporting interval	4000Not Present
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Intra-frequency event identity	1c
- Triggering condition 1	Not Present
- Triggering condition 2	Not Present
- Reporting Range	Not Present
- Cells forbidden to affect Reporting range	Not Present
- W	Not Present
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	3
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- SIB 12 Indicator	TRUE
- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used

- Cell_selection_and_reselection_quality_measure	CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE
- CHOICE mode	TDD
- Primary CCPCH info	
- Cell parameters ID	Reference clause 6.1 Default settings for cell
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Burst type	Not Present
- Cell Selection and Re-selection info	Not Present
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- CHOICE mode	TDD
- Measurement quantity list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	TRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger	Event trigger
Reporting Mode	
- 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	Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	2
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1

- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	2
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	3
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.3 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	4
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.4 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	5
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD

- Primary CPICH info	Refer to clause titled "Default settings for cell No.5 (FDD)" in clause 6.1
- Primary scrambling code	Not Present
- Primary CPICH TX power	FALSE
- TX Diversity indicator	
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	6
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.6 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	7
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.7 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell id	8
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause titled "Default settings for cell No.8 (FDD)" in clause 6.1
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset1s,n	0 dB
- Qoffset2s,n	Not Present
- Maximum allowed UL TX power	Reference to table 6.1.1

- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	Reference to table 6.1.1
- Qrxlevmin	Reference to table 6.1.1
- Cell for measurement	Not Present
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN indicator	TRUE
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Refer to clause "Default settings for cell No.1 (FDD)" in clause 6.4
- Primary CPICH TX power	Not Present
- TX Diversity indicator	FALSE
- Cell Selection and Re-selection info	
- Qoffset _{s,n}	0 dB
- Qoffset _{2s,n}	Not Present
- Maximum allowed UL TX power	33dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement quantity	CPICH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	TRUEFALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference type	No report
- Cell synchronisation information reporting indicator	FALSETRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodic Reporting/Event Trigger Reporting Mode	Event trigger
- CHOICE report criteria	Intra-frequency measurement reporting criteria
- Intra-frequency measurement reporting criteria	
- Parameters required for each event	3 kinds
- Intra-frequency event identity	1a
- Triggering condition 1	Not Present
- Triggering condition 2	Active set cells and monitored set cells
- Reporting Range	5dB
- Cells forbidden to affect reporting range	Not Present
- W	1.0

- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	32
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	0
- Reporting cell status	
- CHOICE reported cell	Report cell Within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Intra-frequency event identity	1b
- Triggering condition 1	Active set cells and monitored set cells
- Triggering condition 2	Not Present
- Reporting Range	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	3Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4Not Present
- Reporting interval	4000Not Present
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Intra-frequency event identity	1c
- Triggering condition 1	Not Present
- Triggering condition 2	Not Present
- Reporting Range	Not Present
- Cells forbidden to affect Reporting range	Not Present
- W	Not Present
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	3
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cell	Report cell within active set and/or monitored set cells on used frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_measure	CPICH-RSCP
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	1
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	1

- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	TRUE
- CHOICE mode	TDD
- Primary CCPCH info	
- Cell parameters ID	Reference clause 6.1 Default settings for cell
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Burst type	
- Cell Selection and Re-selection info	Not Present
- Cell for measurement	Not present
- Intra-frequency measurement quantity	
- Filter coefficient	0
- CHOICE mode	TDD
- Measurement list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH Reporting	Not Present
- Maximum number of reported cells on RACH	No report
- Reporting information for state CELL_DCH	
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	TRUE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposal TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for detected set cells	Not Present
- Measurement reporting mode	
- Measurement Report Transfer Mode	Acknowledged mode RLC
- Periodical Reporting / Event Trigger Reporting Mode	Event trigger
- 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	Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	
- CHOICE reported cells	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	2

- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

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

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

- Individual Timeslot interference 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 type 17 (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

Default settings for cell No.1 (FDD):

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

Default settings for cell No.1 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CPICH info	
- Cell parameters ID	0

Cell No.2

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

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

Default settings for cell No.2 (FDD):

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

Default settings for cell No.2 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	4

Cell No.3

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

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

Default settings for cell No.3 (FDD):

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

Default settings for cell No.3 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	8

Cell No.4

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

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

Default settings for cell No.4 (FDD):

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

Default settings for cell No.4 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	12

Cell No.5

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

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

Default settings for cell No.5 (FDD):

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

Default settings for cell No.5 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	114

Cell No.6

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

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

Default settings for cell No.6 (FDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CPICH info	
- Primary scrambling code	350

Default settings for cell No.6 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	119

Cell No.7

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

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

Default settings for cell No.7 (FDD):

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

Default settings for cell No.7 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	123

Cell No.8

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

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

Default settings for cell No.8 (FDD):

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

Default settings for cell No.8 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	127

Reference Radio Conditions for signalling test cases only (FDD)

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

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

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

Parameter	Unit	Cell 1
Cell type		Serving cell
UTRA-RE Channel Number		Channel 1
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	24
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60
NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.		
NOTE 2: The cell fulfils TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.		

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

Parameter	Unit	Cell 1	Cell 2
Cell type		Serving cell	Suitable neighbour cell
UTRA RF Channel Number		Channel 1	Channel 1
Qqualmin	dB	-24	-24
Qrxlevmin	dBm	-80	-80
UE_TXPWR_MAX_RACH	dBm	21	21
CPICH_Ec (see notes 1 and 2)	dBm/3.84 MHz	-60	-70

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

NOTE 2: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.

Table 6.1.3: Default settings for a non-suitable cell

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH_Ec	dBm/3.84 MHz	-90

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

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

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

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH_Ec	dBm/3.84 MHz	≤ -122

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

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

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

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

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

Reference Radio Conditions for signalling test cases only (TDD)

<FFS>

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
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id = 0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD

- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	01
- Secondary CCPCH system information	(For 2 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	4
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	

- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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

- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor β_c	10
- Gain factor β_d	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)

- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#3)
- Available signature Start Index	7 (ASC#3)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#5)
- Available signature Start Index	7 (ASC#5)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#7)
- Available signature Start Index	7 (ASC#7)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	Not present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	3dB
- Power Ramp Step	24
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	01
- Secondary CCPCH system information	(For 2 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	4
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1

- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- 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

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

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

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

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor β_c	10
- Gain factor β_d	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD

- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	(For 2 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	4
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	

- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	5
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	complete
- TFCS addition information	
- CHOICE CTFC Size	2 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

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

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

- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#2)

- Available signature End Index	7 (ASC#2)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	0 (ASC#3)
- Available signature Start Index	7 (ASC#3)
- Available signature End Index	'1111'B
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	FDD
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	Not present
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	3dB
- Power Ramp Step	24
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	90
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1

- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	16 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	17 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

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

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

Contents of Scheduling Block 1 (FDD)

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1

- SEG_COUNT	3
- SIB_REP	128
- SIB_POS	26
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 5
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	128
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 7
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	58
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	106
- SIB_POS offset info	
- 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	6
- SIB_REP	128
- SIB_POS	74
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	8
- SIB_OFF	4
- SIB_OFF	2
- SIB type SIBs only	System Information Type 16

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	FALSE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.0
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	½
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor βc	10
- Gain factor βd	15
- Reference TFC ID	0
- Power offset Pp-m	-5dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- CHOICE mode	FDD

Available signature Start Index	0 (ASC#2)
Available signature End Index	7 (ASC#2)
Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
CHOICE mode	FDD
Available signature Start Index	0 (ASC#4)
Available signature End Index	7 (ASC#4)
Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
CHOICE mode	FDD
Available signature Start Index	0 (ASC#6)
Available signature End Index	7 (ASC#6)
Assigned Sub-channel Number	'1111'B
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
- Persistence scaling factor	0.9 (for ASC#2)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	24
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system information	(For 3 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
Primary CPICH usage for channel estimation	Primary CPICH may be used
Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	128
- Code number	6
- Pilot symbol existence	FALSE
- TFCI existence	FALSE
- Fixed or Flexible position	Fixed
- Timing offset	30
- TFCS	

- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	240
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	$\frac{1}{2}$
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	0
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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

- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- 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
- Secondary CCPCH info	(SCCPCH including two FACHs)
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
- Pilot symbol existence	FALSE
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	90
- TFCS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Present
- CTFC information	2
- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	4
- Power offset information	Not Present
- CTFC information	5
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
- 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
- Number of Transport blocks	3
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	

- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	16 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	17 (for FACH)
- CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

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

Default settings for cell No.1 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	0

Cell No.2

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

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

Default settings for cell No.2 (FDD):

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

Default settings for cell No.2 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	4

Cell No.3

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

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

Default settings for cell No.3 (FDD):

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

Default settings for cell No.3 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	8

Cell No.4

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

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

Default settings for cell No.4 (FDD):

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

Default settings for cell No.4 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	12

Cell No.5

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

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

Default settings for cell No.5 (FDD):

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

Default settings for cell No.5 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	114

Cell No.6

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

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

Default settings for cell No.6 (FDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CPICH info	
- Primary scrambling code	350

Default settings for cell No.6 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	119

Cell No.7

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

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

Default settings for cell No.7 (FDD):

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

Default settings for cell No.7 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	123

Cell No.8

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

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

Default settings for cell No.8 (FDD):

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

Default settings for cell No.8 (TDD):

Downlink input level	Reference clause 6.10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	127

6.1.5 Reference Radio Conditions for signalling test cases only (FDD)

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

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

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

Parameter	Unit	Cell 1
Cell type		Serving cell
UTRA RF Channel Number		Channel 1
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60
NOTE 1: The power level is specified in terms of CPICH Ec instead of CPICH RSCP as RSCP is a receiver measurement and only CPICH Ec can be directly controlled by the SS.		
NOTE 2: The cell fulfils TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.		

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

Parameter	Unit	Cell 1	Cell 2
Cell type		Serving cell	Suitable neighbour cell
UTRA RF Channel Number		Channel 1	Channel 1
Qqualmin	dB	-24	-24
Qrxlevmin	dBm	-80	-80
UE_TXPWR_MAX_RACH	dBm	21	21
CPICH Ec (see notes 1 and 2)	dBm/3.84 MHz	-60	-70

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

NOTE 2: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.

Table 6.1.3: Default settings for a non-suitable cell

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH Ec	dBm/3.84 MHz	-90

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

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

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

Parameter	Unit	Level
Qqualmin	dB	-24
Qrxlevmin	dBm	-80
UE_TXPWR_MAX_RACH	dBm	21
CPICH Ec	dBm/3.84 MHz	≤ -122

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

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

Table 6.1.5: Default power levels of physical channels relative to CPICH Ec

Parameter	Unit	Level Idle mode	Level Connected mode
DPCH Ec	dB	(NOTE)	-5
PCCPCH Ec	dB		-2
SCCPCH Ec	dB		-2
AICH Ec	dB		-5
SCH Ec	dB		-2
PICH Ec	dB		-5

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

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

<FFS>

<End of modified section>

CR-Form-v5.1
<h2 style="margin: 0;">CHANGE REQUEST</h2>
⌘ 34.108 CR 118 ⌘ rev - ⌘ Current version: 4.2.1 ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ WCDMA 1800 additions for TS34.108 Rel-4	
Source: ⌘ Nokia	
Work item code: ⌘ TEI Date: ⌘ 8 May, 2002	
Category: ⌘ A <i>Use one of the following categories:</i> F (correction) A (corresponds to a correction in an earlier release) B (addition of feature), C (functional modification of feature) D (editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900 .	Release: ⌘ Rel-4 <i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)

Reason for change: ⌘ Test frequencies have not been specified for operating band III. Terminology of current TS34.108 is inconsistent with TS34.121.
Summary of change: ⌘ Test frequencies are added for operation band III. Terms operating band I, II and III are added.
Consequences if not approved: ⌘ Test frequencies do not exist for operating band III. TS34.108 and TS34.121 are inconsistent.

Clauses affected: ⌘ 5.1
Other specs affected: ⌘ <input type="checkbox"/> Other core specifications ⌘ <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications
Other comments: ⌘

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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 ~~either one of two-three~~ paired bands [11]. ~~The second band is used in ITU Region 2.~~ The reference test frequencies for the common test environment for each of the ~~2-regions~~ 3 operating bands are defined in the following tables:

5.1.1.1 ~~Standard~~ 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 ~~ITU-region-2~~ Operating Band II

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

5.1.1.3 FDD reference test frequencies for Operating Band III

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

CHANGE REQUEST

⌘ **TS 34.108 CR 119** ⌘ rev - ⌘ Current version: **4.2.1** ⌘
Spec Title: Common Test Environments for User Equipment (UE) ⌘
Conformance Testing

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ Inclusion of default message contents for Signalling in clause 9.1 for TDD mode

Source: ⌘ Siemens

Work item code: ⌘ TEI, LCRTDD

Date: ⌘ 30/4/2002

Category: ⌘ **F**

Release: ⌘ **R4**

Use one of the following categories:

- F** (correction)
- A** (corresponds to a correction in an earlier release)
- B** (addition of feature),
- C** (functional modification of feature)
- D** (editorial modification)

Detailed explanations of the above categories can be found in 3GPP [TR 21.900](#).

Use one of the following releases:

- 2** (GSM Phase 2)
- R96** (Release 1996)
- R97** (Release 1997)
- R98** (Release 1998)
- R99** (Release 1999)
- REL-4** (Release 4)
- REL-5** (Release 5)

Reason for change: ⌘ TDD default message contents are included for testing UE properly

Summary of change: ⌘ Section 9.1 is splitted in two subsections, one for FDD and one for TDD

These Contents for default message contents have been identified as necessary to be specified separately for TDD mode in TS 34.108 for the correct behaviour of the tests in TS 34.123-1

- Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS) (3.84 Mcps TDD option)
- Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS) (1.28 Mcps TDD option)
- Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS) (3.84 Mcps TDD option)
- Contents of RADIO BEARER SETUP message: AM or UM (Packet to CELL_DCH from CELL_DCH in PS) (1.28 Mcps TDD option)
- Contents of RADIO BEARER SETUP COMPLETE message:AM
- Contents of RADIO BEARER RELEASE COMPLETE message:AM
- Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (3.84 Mcps TDD option)
- Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD option)

[Samsung's comment received:](#)

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

RRC transaction identifier specifies as 0

Consequences if not approved: ⌘ The test prose cannot test UE correctly.

Clauses affected: ⌘ Section 9.1

Other specs affected: ⌘ Other core specifications ⌘ Test specifications
 O&M Specifications

Other comments: ⌘ Last T1 SIG#22 meeting some CRs were approved for this section for FDD mode. These changes have been taken in account when needed.
(T1S-020138r1, T1S-020154, T1S-020156, T1S-020158r1, T1S-020225)

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. Below is a brief summary:

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

9 Default Message Contents

9.1 Default Message Contents for Signalling

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.

9.1.1 Default Message Contents for Signalling (FDD)

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number CN domain identity NAS message	0 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. CS domain or PS domain 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 - RRC Message sequence number CN domain identity Intra Domain NAS Node Selector NAS message Measured results on RACH	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. CS domain or PS domain Set to the same octet string as in the IMSI stored in the USIM card Set according to that indicated in specific message content for each test case 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Conversational Call CS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Streaming Call CS domain Set to the same octet string as in the IMSI stored in the USIM card 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 - Paging cause - CN domain identity - CHOICE UE identity - IMSI (GSM-MAP) BCCH modification info	CN identity Terminating Interactive Call PS domain Set to the same octet string as in the IMSI stored in the USIM card Not Present

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS)

Information Element	Value/remark
Message Type	0
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	SS provides the value of this IE, from its internal counter.
- RRC message sequence number	Not Present
Integrity protection 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 info	Start/restart
- Ciphering mode command	Use one of the supported ciphering algorithms
- Ciphering algorithm	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	(256+CFN-(CFN MOD 8 + 8))MOD 256
Activation time	
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 list	Not Present
RAB information for setup list	
- RAB information for setup	
- RAB info	
- RAB identity	0000 0001B
- CN domain identity	CS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity	10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	11
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC

Information Element	Value/remark
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	7
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	12
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	3
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	8
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	
- CHOICE CTFC Size	
- CTFC information	This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10
- CTFC	Reference to TS34.108 clause 6.10 Parameter Set
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Computed Gain Factors)
- Gain factor β_c	11 (below 64 kbps)
- Gain factor β_d	9 (higher than 64 kbps)
- Reference TFC ID	(Not Present if the above is set to Computed Gain Factors)
- CHOICE mode	Factors)
	15
	(Not Present if the above is set to Computed Gain Factors)
	0
	FDD

Information Element	Value/remark
- Power offset P _{p-m}	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	3 DCHs
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	(This IE is repeated for TFI number.)
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type	DCH
- UL Transport channel identity	3
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	(This IE is repeated for TFI number.)
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
- CRC size	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE mode	FDD
- CPCH set ID	Not Present
- Added or Reconfigured TrCH information for DRAC	Not Present
list	
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	3 DCHs

Information Element	Value/remark
Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	6
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	1
- DCH quality target	
- BLER Quality value	-6.3
- Transparent mode signalling info	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	7
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	2
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	8
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	3
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
Frequency info	
- UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
- UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	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	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset $P_{Pilot-DPCH}$	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Downlink information for each radio link	
- Choice mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"

Information Element	Value/remark
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSST Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

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

Information Element	Value/remark
Message Type	0
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
Integrity protection mode info	Not Present
Ciphering mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use one of the supported ciphering algorithms
- Ciphering activation time for DPCH	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Radio bearer downlink ciphering activation time info	Not Present
Activation time	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
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 0101B
- CN domain identity	PS domain
- NAS Synchronization Indicator	Not Present
- Re-establishment timer	UseT314
- RB information to setup	
- RB identity	20
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	8
- 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
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200
- Missing PDU indicator	TRUE
- 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

Information Element	Value/remark
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	6
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	7
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	6
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
RB information to be affected list	Not Present
Downlink counter synchronisation info	Not Present
UL Transport channel information for all transport 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	
- CTFC information	This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10
- CTFC	Reference to TS34.108 clause 6.10 Parameter Set
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factors(The last TFC is set to Computed Gain Factors)
- Gain factor β_c	11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors)
- Gain factor β_d	15 (Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset P _{p-m}	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	

Information Element	Value/remark
<ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	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
CHOICE mode <ul style="list-style-type: none"> - CPCH set ID - Added or Reconfigured TrCH information for 	FDD Not Present Not Present
DRAC list DL Transport channel information common for all transport channel	
<ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters - DL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information 	Not Present FDD Explicit Normal Complete reconfiguration
<ul style="list-style-type: none"> - CTFC - Power offset information - CHOICE Gain Factors 	This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10 Reference to TS34.108 clause 6.10 Parameter Set Computed Gain Factors(The last TFC is set to Computed Gain Factors)
<ul style="list-style-type: none"> - Gain factor β_c 	11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors)
<ul style="list-style-type: none"> - Gain factor β_d 	15 (Not Present if the above is set to Computed Gain Factors)
<ul style="list-style-type: none"> - Reference TFC ID - CHOICE mode - Power offset P_{p-m} 	0 FDD Not Present Not Present
Deleted TrCH information list	
Added or Reconfigured TrCH information list	
<ul style="list-style-type: none"> - Added or Reconfigured DL TrCH information - Downlink transport channel type - DL Transport channel identity - CHOICE DL parameters - TFS 	DCH 6 Explicit
<ul style="list-style-type: none"> - CHOICE Transport channel type - Dynamic Transport format information - RLC Size 	Dedicated transport channels Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Number of TBs and TTI List - Transmission Time Interval - Number of Transport blocks 	(This IE is repeated for TFI number.) Not Present
<ul style="list-style-type: none"> - Semi-static Transport Format information 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	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
<ul style="list-style-type: none"> - DCH quality target - BLER Quality value - Transparent mode signalling info 	-6.3 Not Present
Frequency info	
<ul style="list-style-type: none"> - UARFCN uplink(Nu) - UARFCN downlink(Nd) 	Reference to clause 5.1 Test frequencies Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
CHOICE channel requirement	Uplink DPCH info
<ul style="list-style-type: none"> - Uplink DPCH power control info 	
<ul style="list-style-type: none"> - DPCCH power offset 	-6dB
<ul style="list-style-type: none"> - PC Preamble 	1 frame
<ul style="list-style-type: none"> - SRB delay 	7 frames

Information Element	Value/remark
<ul style="list-style-type: none"> - Power Control Algorithm - TPC step size - Scrambling code type - Scrambling code number - Number of DPDCH - spreading factor - TFCI existence - Number of FBI bit - Puncturing Limit 	Algorithm1 1dB Long 0 (0 to 16777215) Not Present(1) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Mode	FDD
<ul style="list-style-type: none"> - Downlink PDSCH information 	Not Present
Downlink information common for all radio links	
<ul style="list-style-type: none"> - Downlink DPCH info common for all RL 	
<ul style="list-style-type: none"> - Timing indicator 	Maintain
<ul style="list-style-type: none"> - CFN-targetSFN frame offset 	Not Present
<ul style="list-style-type: none"> - Downlink DPCH power control information 	
<ul style="list-style-type: none"> - DPC mode 	0 (single)
<ul style="list-style-type: none"> - CHOICE mode 	FDD
<ul style="list-style-type: none"> - Power offset $P_{Pilot-DPDCH}$ 	0
<ul style="list-style-type: none"> - DL rate matching restriction information 	Not Present
<ul style="list-style-type: none"> - Spreading factor 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Fixed or Flexible Position 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - TFCI existence 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - CHOICE SF 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - DPCH compressed mode info 	Not Present
<ul style="list-style-type: none"> - TX Diversity mode 	None
<ul style="list-style-type: none"> - SSDT information 	Not Present
<ul style="list-style-type: none"> - Default DPCH Offset Value 	Not Present
Downlink information for each radio link list	
<ul style="list-style-type: none"> - Downlink information for each radio link 	
<ul style="list-style-type: none"> - Choice mode 	FDD
<ul style="list-style-type: none"> - Primary CPICH info 	
<ul style="list-style-type: none"> - Primary scrambling code 	Reference to clause 6.1 "Default settings (FDD)"
<ul style="list-style-type: none"> - PDSCH with SHO DCH info 	Not Present
<ul style="list-style-type: none"> - PDSCH code mapping 	Not Present
<ul style="list-style-type: none"> - Downlink DPCH info for each RL 	
<ul style="list-style-type: none"> - Primary CPICH usage for channel estimation 	Primary CPICH may be used
<ul style="list-style-type: none"> - DPCH frame offset 	0 chips
<ul style="list-style-type: none"> - Secondary CPICH info 	Not Present
<ul style="list-style-type: none"> - DL channelisation code 	
<ul style="list-style-type: none"> - Secondary scrambling code 	1
<ul style="list-style-type: none"> - Spreading factor 	Reference to TS34.108 clause 6.10 Parameter Set
<ul style="list-style-type: none"> - Code number 	0
<ul style="list-style-type: none"> - Scrambling code change 	No change
<ul style="list-style-type: none"> - TPC combination index 	0
<ul style="list-style-type: none"> - SSDT Cell Identity 	Not Present
<ul style="list-style-type: none"> - Closed loop timing adjustment mode 	Not Present
<ul style="list-style-type: none"> - SCCPCH information for FACH 	Not Present

Contents of RADIO BEARER SETUP COMPLETE message: AM

<p>Message Type RRC transaction identifier</p> <p>Integrity check info</p> <ul style="list-style-type: none"> - Message authentication code - RRC Message sequence number <p>Uplink integrity protection activation info CHOICE mode START COUNT-C activation time</p> <p>Radio bearer uplink ciphering activation time info</p> <p>Uplink counter synchronisation info</p>	<p>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p>FDD</p> <p>Not checked</p> <p>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.</p> <p>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.</p> <p>Not checked</p>
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Contents of RADIO BEARER RELEASE COMPLETE message: AM

<p>Message Type RRC transaction identifier</p> <p>Integrity check info</p> <ul style="list-style-type: none"> - Message authentication code - RRC Message sequence number <p>Uplink integrity protection activation info CHOICE mode COUNT-C activation time</p> <p>Radio bearer uplink ciphering activation time info</p> <p>Uplink counter synchronisation info</p>	<p>Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p>FDD</p> <p>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.</p> <p>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.</p> <p>Not checked</p>
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Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark
Message Type Initial UE identity - CHOICE UE id type - IMSI (GSM-MAP) Establishment cause Protocol error indicator Measured results on RACH	Set to the UE's IMSI (GSM-MAP) or TMSI. To be checked against requirement if specified FALSE Not checked

Contents of RRC CONNECTION RELEASE message: UM

Information Element	Value/remark
Message Type U-RNTI - SRNC identity - S-RNTI RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number N308 Release cause Rplmn information	This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent. 0000 0000 0001B 0000 0000 0000 0000 0001B 0 The presence of this IE depends on 2 factors: (a) Ixit statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. (b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. 2 (for CELL_DCH state). Not Present (for UE in other connected mode states). Normal event Not Present

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

Information Element	Semantics description
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Error indication	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. The presence of this IE is dependent on Ixit statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. Checked to see if it's identical to the value of XMAC-I calculated by the SS Checked to see if it is present. This number is used by the SS to compute the XMAC-I Not checked

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

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier	0
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	1
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	
- SDU discard mode	Timer based no explicit
- Timer discard	50
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	2
- 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	4
- Transmission window size	8
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200

Information Element	Value/remark
- Timer_poll	200
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200
- Missing PDU indicator	TRUE
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	2
- CHOICE RLC size list	Configured
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list	Explicit List
- RLC size index	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	3
- 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	4
- Transmission window size	8
- 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
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200

Information Element	Value/remark
- Missing PDU indicator	TRUE
- RB mapping info	2 RBMuxOptions
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of RLC logical channels	DCH
- Uplink transport channel type	5
- UL Transport channel identity	3
- Logical channel identity	Configured
- CHOICE RLC size list	3
- MAC logical channel priority	1
- Downlink RLC logical channel info	DCH
- Number of RLC logical channels	10
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	3
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- 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	1
- Number of RLC logical channels	FACH
- Downlink transport channel type	Not Present
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	3
- Logical channel identity	(AM DCCH for NAS_DT Low priority)
Signalling RB information to setup	4
- RB identity	
- CHOICE RLC info type	
- RLC info	AM RLC
- CHOICE Uplink RLC mode	
- Transmission RLC discard	Max DAT retransmissions
- SDU discard mode	4
- MAX_DAT	100
- Timer_MRW	4
- MaxMRW	8
- Transmission window size	500
- Timer_RST	4
- Max_RST	
- Polling info	200
- Timer_poll_prohibit	200
- Timer_poll	1
- Poll_SDU	TRUE
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	99
- Poll_Windows	AM RLC
- CHOICE Downlink RLC mode	TRUE
- In-sequence delivery	8
- Receiving window size	
- Downlink RLC status info	200
- Timer_status_prohibit	200
- Timer_EPC	TRUE
- Missing PDU indicator	
- RB mapping info	2 RBMuxOptions
- Information for each multiplexing option	Not Present
- RLC logical channel mapping indicator	1
- Number of RLC logical channels	DCH
- Uplink transport channel type	5
- UL Transport channel identity	4
- Logical channel identity	Configured
- CHOICE RLC size list	4
- MAC logical channel priority	
- Downlink RLC logical channel info	

Information Element	Value/remark
<ul style="list-style-type: none"> - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - RLC logical channel mapping indicator - Number of RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - CHOICE RLC size list <ul style="list-style-type: none"> - RLC size index - MAC logical channel priority - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity 	<ul style="list-style-type: none"> 1 DCH 10 Not Present 4 Not Present 1 RACH Not Present 4 Explicit List Reference to TS34.108 clause 6 Parameter Set 5 1 FACH Not Present Not Present 4
<p>UL Transport channel information for all transport channels</p>	
<ul style="list-style-type: none"> - PRACH TFCS - CHOICE Mode - TFC subset - UL DCH TFCS - CHOICE TFCI signalling - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete reconfigure - CHOICE CTFC Size - CTFC information - CTFC - Power offset information - CHOICE Gain Factors - Gain factor β_c - Gain factor β_d - Reference TFC ID - CHOICE mode - Power offset Pp-m 	<ul style="list-style-type: none"> Not Present FDD Not Present Normal Addition 2bit CTFC This IE is repeated for TFC numbers and reference to TS34.108 clause 6.10 Reference to TS34.108 clause 6.10 Parameter Set Computed Gain Factors(The last TFC is set to Computed Gain Factors) 11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain Factors) 15 (Not Present if the above is set to Computed Gain Factors) 0 FDD Not Present
<p>Added or Reconfigured UL TrCH information</p>	
<ul style="list-style-type: none"> - Uplink transport channel type - UL Transport channel identity - TFS - CHOICE Transport channel type - Dynamic Transport format information - RLC size - Number of TBs and TTI lists - Transmission Time Interval - Number of Transport blocks - CHOICE Logical channel list - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size 	<ul style="list-style-type: none"> DCH 5 Dedicated transport channels Reference to clause 6.10 Parameter Set (This IE is repeated for TFI number) Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set All Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set
<p>DL Transport channel information common for all transport channel</p>	
<ul style="list-style-type: none"> - SCCPCH TFCS - CHOICE mode - CHOICE DL parameters 	<ul style="list-style-type: none"> Not Present FDD Same as UL
<p>Added or Reconfigured DL TrCH information</p>	

Information Element	Value/remark
- 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	-6.3
- Transparent mode signalling info	Not Present
Frequency info	
- UARFCN uplink(Nu)	Reference to clause 5.1 Test frequencies
- UARFCN downlink(Nd)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	33dBm
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	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
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing Indication	Initialise
- CFN-targetSFN frame offset	0
- CHOICE mode	FDD
- Downlink DPCH power control information	
- DPC mode	0 (single)
- Power offset $P_{Pilot-DPCH}$	0
- DL rate matching restriction information	Not Present
- Spreading factor	Reference to TS34.108 clause 6.10 Parameter Set
- Fixed or Flexible Position	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI existence	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF	Reference to TS34.108 clause 6.10 Parameter Set
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSdT information	Not Present
- Default DPCH Offset Value	0
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	0 chips
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to clause 6.10 Parameter Set
- Code number	0
- Scrambling code change	No change
- TPC combination index	0
- SSdT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

Contents of RRC CONNECTION SETUP COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the value of the same IE transmitted in the downlink RRC CONNECTION SETUP message.
START list	Not checked
UE radio access capability	Not checked
UE radio access capability extension	Not checked
UE system specific capability	Not checked

Contents of SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	
- Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
- Ciphering algorithm capability	
- UEA0	If ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- UEA1	If ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- Spare	FALSE
- Integrity protection algorithm capability	0000000000000010B (UIA1)
- UIA1	TRUE
- Spare	FALSE
Ciphering mode info	This presence of this IE is dependent on IXIT statements in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below. Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message.
- Ciphering activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	Supported domain
UE system specific security capability	Not Checked

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type RRC transaction identifier Integrity check info - Message authentication code - RRC Message sequence number Uplink integrity protection activation info Radio bearer uplink ciphering activation time info	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. The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Not checked. 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 - RRC Message sequence number CN domain identity NAS message Measured results on RACH	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent. This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS. This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value. Checked to see if set to supported CN domain as specified in the IXIT statements Set according to that indicated in specific message content clause 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 Integrity check info - Message authentication code - RRC Message sequence number CN domain identity NAS message	0 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE. SS provides the value of this IE, from its internal counter. CS domain or PS domain See Specific Message Content for each test case

Contents of INITIAL DIRECT TRANSFER message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>CN domain identity</u> <u>Intra Domain NAS Node Selector</u> <u>NAS message</u> <u>Measured results on RACH</u>	<p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>CS domain or PS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Set according to that indicated in specific message content for each test case</p> <p>Not checked</p>

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

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<p>CN identity</p> <p>Terminating Conversational Call</p> <p>CS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Not Present</p>

Contents of PAGING TYPE 1 message: TM (The others of speech in CS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<p>CN identity</p> <p>Terminating Streaming Call</p> <p>CS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Not Present</p>

Contents of PAGING TYPE 1 message: TM (Packet in PS)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>Paging record list</u> <u>- Paging record</u> <u>- CHOICE Used paging identity</u> <u>- Paging cause</u> <u>- CN domain identity</u> <u>- CHOICE UE identity</u> <u>- IMSI (GSM-MAP)</u> <u>BCCH modification info</u>	<p>CN identity</p> <p>Terminating Interactive Call</p> <p>PS domain</p> <p>Set to the same octet string as in the IMSI stored in the USIM card</p> <p>Not Present</p>

Contents of RADIO BEARER SETUP message: AM or UM (Speech in CS) (3.84 Mcps TDD option)

Information Element	Value/remark
<u>Message Type</u>	0
<u>RRC transaction identifier</u>	
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.</u>
<u>- message authentication code</u>	<u>SS provides the value of this IE, from its internal counter.</u>
<u>- RRC message sequence number</u>	<u>Not Present</u>
<u>Integrity protection mode info</u>	<u>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.</u>
<u>Ciphering mode info</u>	<u>Start/restart</u>
<u>- Ciphering mode command</u>	<u>Use one of the supported ciphering algorithms</u>
<u>- Ciphering algorithm</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>- Ciphering activation time for DPCH</u>	<u>Not Present</u>
<u>- Radio bearer downlink ciphering activation time info</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>Activation time</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>New U-RNTI</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>Not Present</u>
<u>New DSCH-RNTI</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>URA identity</u>	<u>Not Present</u>
<u>Signalling RB information to setup list</u>	<u>Not Present</u>
<u>RAB information for setup list</u>	
<u>- RAB information for setup</u>	
<u>- RAB info</u>	
<u>- RAB identity</u>	<u>0000 0001B</u>
<u>- CN domain identity</u>	<u>CS domain</u>
<u>- NAS Synchronization Indicator</u>	<u>Not Present</u>
<u>- Re-establishment timer</u>	<u>UseT314</u>
<u>- RB information to setup</u>	
<u>- RB identity</u>	<u>10</u>
<u>- PDCP info</u>	<u>Not Present</u>
<u>- CHOICE RLC info type</u>	<u>RLC info</u>
<u>- CHOICE Uplink RLC mode</u>	<u>TM RLC</u>
<u>- Transmission RLC discard</u>	<u>Not Present</u>
<u>- Segmentation indication</u>	<u>FALSE</u>
<u>- CHOICE Downlink RLC mode</u>	<u>TM RLC</u>
<u>- Segmentation indication</u>	<u>FALSE</u>
<u>- RB mapping info</u>	
<u>- Information for each multiplexing option</u>	
<u>- RLC logical channel mapping indicator</u>	<u>Not Present</u>
<u>- Number of uplink RLC logical channels</u>	<u>1</u>
<u>- Uplink transport channel type</u>	<u>DCH</u>
<u>- UL Transport channel identity</u>	<u>1</u>
<u>- Logical channel identity</u>	<u>Not Present</u>
<u>- CHOICE RLC size list</u>	<u>Configured</u>
<u>- MAC logical channel priority</u>	<u>1</u>
<u>- Downlink RLC logical channel info</u>	
<u>- Number of downlink RLC logical channels</u>	<u>1</u>
<u>- Downlink transport channel type</u>	<u>DCH</u>
<u>- DL DCH Transport channel identity</u>	<u>6</u>
<u>- DL DSCH Transport channel identity</u>	<u>Not Present</u>
<u>- Logical channel identity</u>	<u>Not Present</u>
<u>- RB identity</u>	<u>11</u>
<u>- PDCP info</u>	<u>Not Present</u>
<u>- CHOICE RLC info type</u>	<u>RLC info</u>
<u>- CHOICE Uplink RLC mode</u>	<u>TM RLC</u>
<u>- Transmission RLC discard</u>	<u>Not Present</u>
<u>- Segmentation indication</u>	<u>FALSE</u>

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	7
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	12
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	3
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	8
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
RB information to be affected list	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.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCvalue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	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

<u>Information Element</u>	<u>Value/remark</u>
- <u>Dynamic Transport format information</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>RLC Size</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Number of TBs and TTI List</u>	<u>Not Present</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>All</u>
- <u>CHOICE Logical Channel list</u>	
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>2</u>
- <u>TFS</u>	
- <u>CHOICE Transport channel type</u>	<u>Dedicated transport channels</u>
- <u>Dynamic Transport format information</u>	
- <u>RLC Size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of TBs and TTI List</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>CHOICE Logical Channel list</u>	<u>All</u>
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>3</u>
- <u>TFS</u>	
- <u>CHOICE Transport channel type</u>	<u>Dedicated transport channels</u>
- <u>Dynamic Transport format information</u>	
- <u>RLC Size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of TBs and TTI List</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>CHOICE Logical Channel list</u>	<u>All</u>
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
<u>CHOICE mode</u>	<u>TDD (no data)</u>
<u>DL Transport channel information common for all transport channel</u>	
- <u>SCCPCH TFCS</u>	<u>Not Present</u>
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>CHOICE DL parameters</u>	<u>Same as UL</u>
<u>Deleted TrCH information list</u>	<u>Not Present</u>
<u>Added or Reconfigured TrCH information list</u>	<u>3 DCHs</u>
<u>Added or Reconfigured DL TrCH information</u>	
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL Transport channel identity</u>	<u>6</u>
- <u>CHOICE DL parameters</u>	<u>Same as UL</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL TrCH identity</u>	<u>1</u>
- <u>DCH quality target</u>	
- <u>BLER Quality value</u>	<u>-6.3</u>
- <u>Transparent mode signalling info</u>	<u>Not Present</u>
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL Transport channel identity</u>	<u>7</u>

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	2
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	8
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	3
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
Frequency info	
- 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 Id	1
- Time info	
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration	infinite
- Common timeslot info	
- 2 nd interleaving mode	Reference to TS34.108 clause 6 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 code	
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
- CHOICE TDD option	3.84 Mcps
- Midamble allocation mode	Default
- Midamble configuration burst type	16
1 and 3	
- CHOICE TDD option	3.84 Mcps TDD (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

Information Element	Value/remark
<ul style="list-style-type: none"> Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing indicator - CFN-targetSFN frame offset - Downlink DPCH power control information - CHOICE mode - TPC step size - CHOICE mode - CHOICE TDD option - Default DPCH offset value - Downlink information for each radio link - Choice mode - Primary CCPCH info - CHOICE TDD option - 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 - Individual timeslot info - Timeslot number - TFCI existence - Midamble shift and burst type - CHOICE TDD option -CHOICE Burst Type -Type 1 -Midamble Allocation Mode - Midamble configuration burst type 1 and 3 - First timeslot channelisation codes - First channelisation code - Last channelisation code - Bitmap - CHOICE more timeslots - UL CCTrCH TPC List -SCCPCH information for FACH 	<p>number of slots in which they are being assigned.</p> <p>Maintain Not Present</p> <p>TDD 1 dB TDD 3.84 Mcps (no data) 0</p> <p>TDD 3.84 Mcps Sync Case 1 PCCPCH timeslot 0</p> <p>TDD 1 $(256+CFN-(CFN \text{ mod } 8 + 8)) \text{ mod } 256$ infinite</p> <p>Reference to TS34.108 TRUE Reference to TS34.108 clause 6 Parameter set 1 Empty</p> <p>The number of a downlink timeslot that has unassigned codes. TRUE</p> <p>3.84 Mcps</p> <p>Default As defined in 3GPP TS 25.221</p> <p>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set. (j/SF) where j is the highest numbered code that is being assigned in the slot. Bitmap of the codes that are being assigned in the slot. The presence of this IE depends upon whether the requirements of TS34.108 clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot..</p> <p>Not Present Not Present</p>

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

Information Element	Value/remark
<u>Message Type</u>	0
<u>RRC transaction identifier</u>	
<u>Integrity check info</u>	<u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.</u>
<u>- message authentication code</u>	<u>SS provides the value of this IE, from its internal counter.</u>
<u>- RRC message sequence number</u>	<u>Not Present</u>
<u>Integrity protection mode info</u>	<u>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.</u>
<u>Ciphering mode info</u>	<u>Start/restart</u>
<u>- Ciphering mode command</u>	<u>Use one of the supported ciphering algorithms</u>
<u>- Ciphering algorithm</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>- Ciphering activation time for DPCH</u>	<u>Not Present</u>
<u>- Radio bearer downlink ciphering activation time info</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>Activation time</u>	<u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u>
<u>New U-RNTI</u>	<u>Not Present</u>
<u>New C-RNTI</u>	<u>Not Present</u>
<u>New DSCH-RNTI</u>	<u>Not Present</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>URA identity</u>	<u>Not Present</u>
<u>Signalling RB information to setup list</u>	<u>Not Present</u>
<u>RAB information for setup list</u>	
<u>- RAB information for setup</u>	
<u>- RAB info</u>	
<u>- RAB identity</u>	<u>0000 0001B</u>
<u>- CN domain identity</u>	<u>CS domain</u>
<u>- NAS Synchronization Indicator</u>	<u>Not Present</u>
<u>- Re-establishment timer</u>	<u>UseT314</u>
<u>- RB information to setup</u>	
<u>- RB identity</u>	<u>10</u>
<u>- PDCP info</u>	<u>Not Present</u>
<u>- CHOICE RLC info type</u>	<u>RLC info</u>
<u>- CHOICE Uplink RLC mode</u>	<u>TM RLC</u>
<u>- Transmission RLC discard</u>	<u>Not Present</u>
<u>- Segmentation indication</u>	<u>FALSE</u>
<u>- CHOICE Downlink RLC mode</u>	<u>TM RLC</u>
<u>- Segmentation indication</u>	<u>FALSE</u>
<u>- RB mapping info</u>	
<u>- Information for each multiplexing option</u>	
<u>- RLC logical channel mapping indicator</u>	<u>Not Present</u>
<u>- Number of uplink RLC logical channels</u>	<u>1</u>
<u>- Uplink transport channel type</u>	<u>DCH</u>
<u>- UL Transport channel identity</u>	<u>1</u>
<u>- Logical channel identity</u>	<u>Not Present</u>
<u>- CHOICE RLC size list</u>	<u>Configured</u>
<u>- MAC logical channel priority</u>	<u>1</u>
<u>- Downlink RLC logical channel info</u>	
<u>- Number of downlink RLC logical channels</u>	<u>1</u>
<u>- Downlink transport channel type</u>	<u>DCH</u>
<u>- DL DCH Transport channel identity</u>	<u>6</u>
<u>- DL DSCH Transport channel identity</u>	<u>Not Present</u>
<u>- Logical channel identity</u>	<u>Not Present</u>
<u>- RB identity</u>	<u>11</u>
<u>- PDCP info</u>	<u>Not Present</u>
<u>- CHOICE RLC info type</u>	<u>RLC info</u>
<u>- CHOICE Uplink RLC mode</u>	<u>TM RLC</u>
<u>- Transmission RLC discard</u>	<u>Not Present</u>
<u>- Segmentation indication</u>	<u>FALSE</u>

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	2
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	7
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
- RB identity	12
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	TM RLC
- Transmission RLC discard	Not Present
- Segmentation indication	FALSE
- CHOICE Downlink RLC mode	TM RLC
- Segmentation indication	FALSE
- RB mapping info	
- Information for each multiplexing option	
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	3
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	8
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	Not Present
RB information to be affected list	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.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCvalue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	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

<u>Information Element</u>	<u>Value/remark</u>
- <u>Dynamic Transport format information</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>RLC Size</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Number of TBs and TTI List</u>	<u>Not Present</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>All</u>
- <u>CHOICE Logical Channel list</u>	
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>2</u>
- <u>TFS</u>	
- <u>CHOICE Transport channel type</u>	<u>Dedicated transport channels</u>
- <u>Dynamic Transport format information</u>	
- <u>RLC Size</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Number of TBs and TTI List</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>CHOICE Logical Channel list</u>	<u>All</u>
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>3</u>
- <u>TFS</u>	
- <u>CHOICE Transport channel type</u>	<u>Dedicated transport channels</u>
- <u>Dynamic Transport format information</u>	
- <u>RLC Size</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Number of TBs and TTI List</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>Transmission Time Interval</u>	<u>Not Present</u>
- <u>Number of Transport blocks</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Transmission Time Interval</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Number of Transport blocks</u>	<u>(This IE is repeated for TFI number.)</u>
- <u>CHOICE Logical Channel list</u>	<u>All</u>
- <u>Semi-static Transport Format information</u>	
- <u>Transmission time interval</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Type of channel coding</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Coding Rate</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>Rate matching attribute</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>CRC size</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
<u>CHOICE mode</u>	<u>TDD (no data)</u>
<u>DL Transport channel information common for all transport channel</u>	
- <u>SCCPCH TFCS</u>	<u>Not Present</u>
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>CHOICE DL parameters</u>	<u>Same as UL</u>
<u>Deleted TrCH information list</u>	<u>Not Present</u>
<u>Added or Reconfigured TrCH information list</u>	<u>3 DCHs</u>
<u>Added or Reconfigured DL TrCH information</u>	
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL Transport channel identity</u>	<u>6</u>
- <u>CHOICE DL parameters</u>	<u>Same as UL</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL TrCH identity</u>	<u>1</u>
- <u>DCH quality target</u>	
- <u>BLER Quality value</u>	<u>-6.3</u>
- <u>Transparent mode signalling info</u>	<u>Not Present</u>
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL Transport channel identity</u>	<u>7</u>

<u>Information Element</u>	<u>Value/remark</u>
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	2
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	8
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL TrCH identity	3
- DCH quality target	
- BLER Quality value	Not Present
- Transparent mode signalling info	Not Present
Frequency info	
- 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	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
- Time info	
- Activation time	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Duration	infinite
- Common timeslot info	
- 2 nd interleaving mode	Reference to TS34.108 clause 6 Parameter Set.
- TFCI coding	Reference to TS34.108 clause 6 Parameter set.
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter set.
- Repetition Period	Reference to TS34.108 clause 6 Parameter set.
- Repetition Length	Reference to TS34.108 clause 6 Parameter set.
- Uplink DPCH timeslots and code	
- First individual timeslot info	The number of an uplink timeslot that has unassigned codes.
- Timeslot number	
- TFCI existence	TRUE
- Midamble shift and burst type	
- CHOICE TDD option	1.28 Mcps
- Midamble allocation mode	Default
- Midamble configuration	16
- CHOICE TDD option	1.28 Mcps TDD
- Modulation	QPSK
- SS-TPC Symbols	1
- 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

<u>Information Element</u>	<u>Value/remark</u>
CHOICE Mode	number of slots in which they are being assigned. <u>TDD</u>
<u>Downlink information common for all radio links</u>	
- <u>Downlink DPCH info common for all RL</u>	
- <u>Timing indicator</u>	<u>Maintain</u>
- <u>CFN-targetSFN frame offset</u>	<u>Not Present</u>
- <u>Downlink DPCH power control information</u>	
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>TPC step size</u>	<u>1 dB</u>
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>CHOICE TDD option</u>	<u>1.28 Mcps</u>
- <u>TSTD indicator</u>	<u>TRUE</u>
- <u>Default DPCH offset value</u>	<u>0</u>
- <u>Downlink information for each radio link</u>	
- <u>Choice mode</u>	<u>TDD</u>
- <u>Primary CCPCH info</u>	
- <u>CHOICE TDD option</u>	<u>1.28 Mcps</u>
- <u>TSTD indicator</u>	<u>TRUE</u>
- <u>Cell parameters ID</u>	<u>0</u>
- <u>Block STTD indicator</u>	<u>FALSE</u>
- <u>Downlink DPCH info for each RL</u>	
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>DL CCTrCH List</u>	
- <u>TFCS ID</u>	<u>1</u>
- <u>Time info</u>	
- <u>Activation time</u>	<u>(256+CFN-(CFN mod 8 + 8))mod 256</u>
- <u>Duration</u>	<u>infinite</u>
- <u>Common timeslot info</u>	
- <u>2nd interleaving mode</u>	<u>Reference to TS34.108</u>
- <u>TFCI coding</u>	<u>TRUE</u>
- <u>Puncturing limit</u>	<u>Reference to TS34.108 clause 6 Parameter set</u>
- <u>Repetition period</u>	<u>1</u>
- <u>Repetition length</u>	<u>Empty</u>
- <u>Downlink DPCH timeslots and codes</u>	
- <u>Individual timeslot info</u>	
- <u>Timeslot number</u>	<u>The number of a downlink timeslot that has unassigned codes.</u>
- <u>TFCI existence</u>	<u>TRUE</u>
- <u>Midamble shift and burst type</u>	
- <u>CHOICE TDD option</u>	<u>1.28 Mcps</u>
- <u>Midamble Allocation Mode</u>	<u>Default</u>
- <u>Midamble configuration</u>	<u>16</u>
- <u>CHOICE TDD option</u>	<u>1.28 Mcps</u>
- <u>Modulation</u>	<u>QPSK</u>
- <u>SS-TPC Symbols</u>	<u>1</u>
- <u>First timeslot channelisation codes</u>	
- <u>First channelisation code</u>	<u>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set..</u>
- <u>Last channelisation code</u>	<u>(j/SF) where j is the highest numbered code that is being assigned in the slot.</u>
- <u>Bitmap</u>	<u>Bitmap of the codes that are being assigned in the slot.</u>
- <u>CHOICE more timeslots</u>	<u>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..</u>
- <u>UL CCTrCH TPC List</u>	<u>Not Present</u>
- <u>SCCPCH information for FACH</u>	<u>Not Present</u>

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

(3.84 Mcps TDD option)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- message authentication code</u> <u>- RRC message sequence number</u> <u>Integrity protection mode info</u> <u>Ciphering mode info</u> <u>- Ciphering mode command</u> <u>- Ciphering algorithm</u> <u>- Ciphering activation time for DPCH</u> <u>- Radio bearer downlink ciphering activation time info</u> <u>Activation time</u> <u>New U-RNTI</u> <u>New C-RNTI</u> <u>New DSCH-RNTI</u>	0 <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter.</u> <u>Not Present</u> <u>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.</u> <u>Start/restart</u> <u>Use one of the supported ciphering algorithms</u> <u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u> <u>Not Present</u> <u>(256+CFN-(CFN MOD 8 + 8))MOD 256</u> <u>Not Present</u> <u>Not Present</u> <u>Not Present</u>

<u>Information Element</u>	<u>Value/remark</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>URA identity</u>	<u>Not Present</u>
<u>Signalling RB information to setup</u>	<u>Not Present</u>
<u>RAB information for setup</u>	
- <u>RAB info</u>	
- <u>RAB identity</u>	<u>0000 0101B</u>
- <u>CN domain identity</u>	<u>PS domain</u>
- <u>NAS Synchronization Indicator</u>	<u>Not Present</u>
- <u>Re-establishment timer</u>	<u>UseT314</u>
- <u>RB information to setup</u>	
- <u>RB identity</u>	<u>20</u>
- <u>PDCP info</u>	<u>Not Present</u>
- <u>CHOICE RLC info type</u>	<u>RLC info</u>
- <u>CHOICE Uplink RLC mode</u>	<u>AM RLC</u>
- <u>Transmission RLC discard</u>	
- <u>SDU discard mode</u>	<u>Max DAT retransmissions</u>
- <u>MAX_DAT</u>	<u>4</u>
- <u>Timer_MRW</u>	<u>100</u>
- <u>MaxMRW</u>	<u>4</u>
- <u>Transmission window size</u>	<u>8</u>
- <u>Timer_RST</u>	<u>500</u>
- <u>Max_RST</u>	<u>4</u>
- <u>Polling info</u>	
- <u>Timer_poll_prohibit</u>	<u>200</u>
- <u>Timer_poll</u>	<u>200</u>
- <u>Poll_SDU</u>	<u>1</u>
- <u>Last transmission PDU poll</u>	<u>TRUE</u>
- <u>Last retransmission PDU poll</u>	<u>TRUE</u>
- <u>Poll Windows</u>	<u>99</u>
- <u>Timer_poll_periodic</u>	<u>Not Present</u>
- <u>CHOICE Downlink RLC mode</u>	<u>AM RLC</u>
- <u>In-sequence delivery</u>	<u>TRUE</u>
- <u>Receiving window size</u>	<u>8</u>
- <u>Downlink RLC status info</u>	
- <u>Timer_status_prohibit</u>	<u>200</u>
- <u>Timer_EPC</u>	<u>200</u>
- <u>Missing PDU indicator</u>	<u>TRUE</u>
- <u>Timer_STATUS_periodic</u>	<u>Not Present</u>
- <u>RB mapping info</u>	
- <u>Information for each multiplexing option</u>	<u>2 RBMuxOptions</u>
- <u>RLC logical channel mapping indicator</u>	<u>Not Present</u>
- <u>Number of uplink RLC logical channels</u>	<u>1</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>1</u>
- <u>Logical channel identity</u>	<u>Not Present</u>
- <u>CHOICE RLC size list</u>	<u>Configured</u>
- <u>MAC logical channel priority</u>	<u>1</u>
- <u>Downlink RLC logical channel info</u>	
- <u>Number of downlink RLC logical channels</u>	<u>1</u>
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL DCH Transport channel identity</u>	<u>6</u>
- <u>DL DSCH Transport channel identity</u>	<u>Not Present</u>
- <u>Logical channel identity</u>	<u>Not Present</u>
- <u>RLC logical channel mapping indicator</u>	<u>Not Present</u>
- <u>Number of uplink RLC logical channels</u>	<u>1</u>
- <u>Uplink transport channel type</u>	<u>RACH</u>
- <u>UL Transport channel identity</u>	<u>Not Present</u>
- <u>Logical channel identity</u>	<u>7</u>
- <u>CHOICE RLC size list</u>	<u>Explicit List</u>
- <u>RLC size index</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>MAC logical channel priority</u>	<u>6</u>
- <u>Downlink RLC logical channel info</u>	
- <u>Number of downlink RLC logical channels</u>	<u>1</u>
- <u>Downlink transport channel type</u>	<u>FACH</u>
- <u>DL DCH Transport channel identity</u>	<u>Not Present</u>

<u>Information Element</u>	<u>Value/remark</u>
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
<u>RB information to be affected list</u>	Not Present
<u>Downlink counter synchronisation info</u>	Not Present
<u>UL Transport channel information for all transport channels</u>	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	
- TFCS ID	(This IE is repeated for TFC number.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	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
<u>CHOICE mode</u>	TDD (no data)
<u>DL Transport channel information common for all transport channel</u>	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- Individual DL CCTrCH information	
- DL TFCS Identity	
- TFCS Id	1
- Shared Channel Indicator	FALSE
- CHOICE DL parameters	Independent
- DL DCH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS complete reconfigure information	
- CHOICE CTFC Size	Refer to TS34.108 clause 6.

<u>Information Element</u>	<u>Value/remark</u>
- CTFC information	Refer to TS34.108 clause 6.
<u>Added or Reconfigured TrCH information list</u>	
- <u>Added or Reconfigured DL TrCH information</u>	
- Downlink transport channel type	<u>DCH</u>
- DL Transport channel identity	6
- CHOICE DL parameters	<u>Explicit</u>
- TFS	
- CHOICE Transport channel type	<u>Dedicated transport channels</u>
- Dynamic Transport format information	<u>(This IE is repeated for TFI number)</u>
- RLC Size	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Number of TBs and TTI List	<u>(This IE is repeated for TFI number.)</u>
- Transmission Time Interval	<u>Not Present</u>
- Number of Transport blocks	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- CHOICE Logical Channel list	<u>ALL</u>
- Semi-static Transport Format information	
- Transmission time interval	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Type of channel coding	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Coding Rate	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- Rate matching attribute	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- CRC size	<u>Reference to TS34.108 clause 6.10 Parameter Set</u>
- DCH quality target	
- BLER Quality value	-6.3
- Transparent mode signalling info	<u>Not Present</u>
<u>Frequency info</u>	
-CHOICE mode	<u>TDD</u>
- UARFCN (Nt)	<u>Reference to clause 5.1 Test frequencies</u>
<u>Maximum allowed UL TX power</u>	30 dBm
<u>CHOICE channel requirement</u>	<u>Uplink DPCH info</u>
- Uplink DPCH power control info	
- CHOICE mode	<u>TDD</u>
- UL Target SIR	<u>Reference to TS34.108 Parameter set.</u>
- CHOICE UL OL PC info	<u>Individually signalled</u>
- CHOICE TDD option	<u>3.84 Mcps</u>
- Individual timeslot interference info	
- Individual timeslot interference	
- DPCH Constant Value	<u>Values are used for open loop power control, section 8 in TS 25.331</u>
- CHOICE mode	<u>TDD</u>

<u>Information Element</u>	<u>Value/remark</u>
- Uplink Timing Advance Control	Not Present
- UL CCTrCH List	
- TFCS Id	1
- Time info	
- Activation time	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Duration	Infinite
- Common timeslot info	
- 2 nd interleaving mode	Reference to TS34.108 clause 6.10 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6.10 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6.10 Parameter Set
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
- CHOICE TDD option	3.84 Mcps
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst type 1 and 3	As defined in 3GPP TS 25.221
- 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.
<u>Downlink information common for all radio links</u>	
- 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
<u>Downlink information for each radio link list</u>	
- Downlink information for each radio link	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE SyncCase	Sync Case 1
- Timeslot	PCCPCH timeslot
- Cell parameters ID	0
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	TDD
- DL CCTrCH List	
- TFCS ID	1
- Time info	
- Activation time	$(256+CFN-(CFN \text{ mod } 8 + 8))\text{mod } 256$
- Duration	infinite
- Common timeslot info	
- 2 nd interleaving mode	Reference to TS34.108
- TFCI coding	TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1
- Repetition length	Empty
- Downlink DPCH timeslots and codes	
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has unassigned codes.

<u>Information Element</u>	<u>Value/remark</u>
- TFCI existence	TRUE
- Midamble shift and burst type	
- CHOICE TDD option	3.84 Mcps
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	Default
- Midamble configuration burst type 1 and 3	As defined in 3GPP TS 25.221
- First timeslot channelisation codes	
- First channelisation code	(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set..
- Last channelisation code	(j/SF) where j is the highest numbered code that is being assigned in the slot.
- Bitmap	Bitmap of the codes that are being assigned in the slot.
- CHOICE more timeslots	The presence of this IE depends upon whether the requirements of TS34.108 clause 6 Parameter Set could be met by the codes that have been assigned in the first timeslot..
- UL CCTrCH TPC List	Not Present
-SCCPCH information for FACH	Not Present

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

<u>Information Element</u>	<u>Value/remark</u>
Message Type	
RRC transaction identifier	
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted. SS calculates the value of MAC-I for this message and writes to this IE.
- message authentication code	
- 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 is 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	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Radio bearer downlink ciphering activation time info	Not Present
Activation time	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present

<u>Information Element</u>	<u>Value/remark</u>
<u>RRC State indicator</u>	<u>CELL_DCH</u>
<u>UTRAN DRX cycle length coefficient</u>	<u>Not Present</u>
<u>CN information info</u>	<u>Not Present</u>
<u>URA identity</u>	<u>Not Present</u>
<u>Signalling RB information to setup</u>	<u>Not Present</u>
<u>RAB information for setup</u>	
- <u>RAB info</u>	
- <u>RAB identity</u>	<u>0000 0101B</u>
- <u>CN domain identity</u>	<u>PS domain</u>
- <u>NAS Synchronization Indicator</u>	<u>Not Present</u>
- <u>Re-establishment timer</u>	<u>UseT314</u>
- <u>RB information to setup</u>	
- <u>RB identity</u>	<u>20</u>
- <u>PDCP info</u>	<u>Not Present</u>
- <u>CHOICE RLC info type</u>	<u>RLC info</u>
- <u>CHOICE Uplink RLC mode</u>	<u>AM RLC</u>
- <u>Transmission RLC discard</u>	
- <u>SDU discard mode</u>	<u>Max DAT retransmissions</u>
- <u>MAX_DAT</u>	<u>4</u>
- <u>Timer_MRW</u>	<u>100</u>
- <u>MaxMRW</u>	<u>4</u>
- <u>Transmission window size</u>	<u>8</u>
- <u>Timer_RST</u>	<u>500</u>
- <u>Max_RST</u>	<u>4</u>
- <u>Polling info</u>	
- <u>Timer_poll_prohibit</u>	<u>200</u>
- <u>Timer_poll</u>	<u>200</u>
- <u>Poll_SDU</u>	<u>1</u>
- <u>Last transmission PDU poll</u>	<u>TRUE</u>
- <u>Last retransmission PDU poll</u>	<u>TRUE</u>
- <u>Poll Windows</u>	<u>99</u>
- <u>Timer_poll_periodic</u>	<u>Not Present</u>
- <u>CHOICE Downlink RLC mode</u>	<u>AM RLC</u>
- <u>In-sequence delivery</u>	<u>TRUE</u>
- <u>Receiving window size</u>	<u>8</u>
- <u>Downlink RLC status info</u>	
- <u>Timer_status_prohibit</u>	<u>200</u>
- <u>Timer_EPC</u>	<u>200</u>
- <u>Missing PDU indicator</u>	<u>TRUE</u>
- <u>Timer_STATUS_periodic</u>	<u>Not Present</u>
- <u>RB mapping info</u>	
- <u>Information for each multiplexing option</u>	<u>2 RBMuxOptions</u>
- <u>RLC logical channel mapping indicator</u>	<u>Not Present</u>
- <u>Number of uplink RLC logical channels</u>	<u>1</u>
- <u>Uplink transport channel type</u>	<u>DCH</u>
- <u>UL Transport channel identity</u>	<u>1</u>
- <u>Logical channel identity</u>	<u>Not Present</u>
- <u>CHOICE RLC size list</u>	<u>Configured</u>
- <u>MAC logical channel priority</u>	<u>1</u>
- <u>Downlink RLC logical channel info</u>	
- <u>Number of downlink RLC logical channels</u>	<u>1</u>
- <u>Downlink transport channel type</u>	<u>DCH</u>
- <u>DL DCH Transport channel identity</u>	<u>6</u>
- <u>DL DSCH Transport channel identity</u>	<u>Not Present</u>
- <u>Logical channel identity</u>	<u>Not Present</u>
- <u>RLC logical channel mapping indicator</u>	<u>Not Present</u>
- <u>Number of uplink RLC logical channels</u>	<u>1</u>
- <u>Uplink transport channel type</u>	<u>RACH</u>
- <u>UL Transport channel identity</u>	<u>Not Present</u>
- <u>Logical channel identity</u>	<u>7</u>
- <u>CHOICE RLC size list</u>	<u>Explicit List</u>
- <u>RLC size index</u>	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- <u>MAC logical channel priority</u>	<u>6</u>
- <u>Downlink RLC logical channel info</u>	
- <u>Number of downlink RLC logical channels</u>	<u>1</u>
- <u>Downlink transport channel type</u>	<u>FACH</u>
- <u>DL DCH Transport channel identity</u>	<u>Not Present</u>

<u>Information Element</u>	<u>Value/remark</u>
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	7
<u>RB information to be affected list</u>	Not Present
<u>Downlink counter synchronisation info</u>	Not Present
<u>UL Transport channel information for all transport channels</u>	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	
- TFCS ID	(This IE is repeated for TFC number.)
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCvalue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE TFCS Size	Number of used bits must be enough to cover all combinations of CTFC from clauses 6. Refer to TS34.108 clause 6 Parameter Set
- CTFC information	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	Not Present
<u>Deleted TrCH information list</u>	Not Present
<u>Added or Reconfigured TrCH information list</u>	
- 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 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
<u>CHOICE mode</u>	TDD (no data)
<u>DL Transport channel information common for all transport channel</u>	
- SCCPCH TFCS	Not Present
- CHOICE mode	TDD
- Individual DL CCTrCH information	
- DL TFCS Identity	
- TFCS Id	1
- Shared Channel Indicator	FALSE
- CHOICE DL parameters	Independent
- DL DCH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS complete reconfigure information	
- CHOICE CTFC Size	Refer to TS34.108 clause 6.

<u>Information Element</u>	<u>Value/remark</u>
- CTFC information	Refer to TS34.108 clause 6.
Added or Reconfigured TrCH information list	
- Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	6
- CHOICE DL parameters	Explicit
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number)
- RLC Size	Reference to TS34.108 clause 6 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
- Transparent mode signalling info	Not Present
Frequency info	
- CHOICE mode	TDD
- UARFCN (Nt)	Reference to clause 5.1 Test frequencies
Maximum allowed UL TX power	30 dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
- CHOICE mode	TDD
- UL Target SIR	Reference to TS34.108 Parameter set.
- CHOICE UL OL PC info	Individually signaled
- CHOICE TDD option	1.28 Mcps
- TPC step size	1 dB
- Primary CCPCH Tx Power	Not Present
- CHOICE mode	TDD
- Uplink Timing Advance Control	Not Present
- UL CCTrCH List	
- TFCS Id	1
- Time info	
- Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Duration	Infinite
- Common timeslot info	
- 2nd interleaving mode	Reference to TS34.108 clause 6 Parameter Set
- TFCI coding	Reference to TS34.108 clause 6 Parameter Set
- Puncturing Limit	Reference to TS34.108 clause 6 Parameter Set
- Repetition Period	Reference to TS34.108 clause 6 Parameter Set
- Repetition Length	Reference to TS34.108 clause 6 Parameter Set
- First individual timeslot info	
- Timeslot number	The number of an uplink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
- CHOICE TDD option	1.28 Mcps
- Midamble allocation mode	Default
- Midamble configuration	16
- CHOICE TDD option	1.28 Mcps TDD
- Modulation	QPSK

<u>Information Element</u>	<u>Value/remark</u>
- 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 number of slots in which they are being assigned.
<u>Downlink information common for all radio links</u>	
- <u>Downlink DPCH info common for all RL</u>	
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- <u>Downlink DPCH power control information</u>	
- DPC mode	0 (single)
- CHOICE mode	TDD
- TPC step size	1 dB
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps
- TSTD indicator	TRUE
- Default DPCH Offset Value	Not Present
<u>Downlink information for each radio link list</u>	
- <u>Downlink information for each radio link</u>	
- Choice mode	TDD
- Primary CCPCH info	
- CHOICE mode	TDD
- CHOICE TDD option	1.28 Mcps
- TSTD indicator	TRUE
- Cell parameters ID	0
- Block STTD indicator	FALSE
- <u>Downlink DPCH info for each RL</u>	
- CHOICE mode	TDD
- <u>DL CCTrCH List</u>	
- TFCS ID	1
- Time info	
- Activation time	$(256+CFN-(CFN \text{ mod } 8 + 8)) \text{ mod } 256$
- Duration	infinite
- Common timeslot info	
- 2 nd interleaving mode	Reference to TS34.108
- TFCI coding	TRUE
- Puncturing limit	Reference to TS34.108 clause 6 Parameter set
- Repetition period	1
- Repetition length	Empty
- <u>Downlink DPCH timeslots and codes</u>	
- Individual timeslot info	
- Timeslot number	The number of a downlink timeslot that has unassigned codes.
- TFCI existence	TRUE
- Midamble shift and burst type	
-CHOICE TDD option	1.28 Mcps
-Midamble Allocation Mode	Default
- Midamble configuration	16
- CHOICE TDD option	1.28 Mcps TDD
- Modulation	QPSK

<u>Information Element</u>	<u>Value/remark</u>
<u>- SS-TPC Symbols</u> <u>- First timeslot channelisation codes</u> <u>- First channelisation code</u> <u>- Last channelisation code</u> <u>- Bitmap</u> <u>- CHOICE more timeslots</u> <u>- UL CCTrCH TPC List</u> <u>-SCCPCH information for FACH</u>	1 <i>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set..</i> <i>(j/SF) where j is the highest numbered code that is being assigned in the slot.</i> <u>Bitmap of the codes that are being assigned in the slot.</u> <u>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..</u> <u>Not Present</u> <u>Not Present</u>

Contents of RADIO BEARER SETUP COMPLETE message: AM

<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Uplink integrity protection activation info</u> <u>CHOICE mode</u> <u>START</u> <u>COUNT-C activation time</u> <u>Radio bearer uplink ciphering activation time info</u> <u>Uplink counter synchronisation info</u>	<u>Checked to see if the value is identical to the same IE in the downlink RADIO BEARER SETUP message.</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u> <u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u> <u>Not checked.</u> <u>TDD</u> <u>Not checked</u> <u>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.</u> <u>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.</u> <u>Not checked</u>
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Contents of RADIO BEARER RELEASE COMPLETE message: AM

<p><u>Message Type</u> <u>RRC transaction identifier</u></p> <p><u>Integrity check info</u></p> <p>_____ - <u>Message authentication code</u></p> <p>_____ - <u>RRC Message sequence number</u></p> <p><u>Uplink integrity protection activation info</u> <u>CHOICE mode</u> <u>COUNT-C activation time</u></p> <p><u>Radio bearer uplink ciphering activation time info</u></p> <p><u>Uplink counter synchronisation info</u></p>	<p><u>Checked to see the value is identical to the same IE in the downlink RADIO BEARER RELEASE message.</u> <u>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</u> <u>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</u> <u>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</u> <u>Not checked.</u> <u>TDD</u> <u>The presence of this IE depends on the following 2 factors: (a) There exists RB(s) mapped to RLC-TM and (b) UE is transitioning to CELL_DCH state after the RB release procedure. Else, this IE is absent.</u> <u>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.</u> <u>Not checked</u></p>
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Contents of RRC CONNECTION REQUEST message: TM

<u>Information Element</u>	<u>Value/remark</u>
<p><u>Message Type</u> <u>Initial UE identity</u> _____ - <u>CHOICE UE id type</u> _____ - <u>IMSI (GSM-MAP)</u> <u>Establishment cause</u> <u>Protocol error indicator</u> <u>Measured results on RACH</u></p>	<p><u>Set to the UE's IMSI (GSM-MAP) or TMSI.</u> <u>To be checked against requirement if specified</u> <u>FALSE</u> <u>Not checked</u></p>

Contents of RRC CONNECTION RELEASE message: UM

<u>Information Element</u>	<u>Value/remark</u>
<p><u>Message Type</u> <u>U-RNTI</u> _____ - <u>SRNC identity</u> _____ - <u>S-RNTI</u> <u>RRC transaction identifier</u> <u>Integrity check info</u></p> <p>_____ - <u>Message authentication code</u></p> <p>_____ - <u>RRC Message sequence number</u> <u>N308</u></p> <p><u>Release cause</u> <u>Rplmn information</u></p>	<p><u>This IE is set to the following value when the message is transmitted on the CCCH. When transmitted on DCCH, this is absent.</u> <u>0000 0000 0001B</u> <u>0000 0000 0000 0000 0001B</u> <u>0</u> <u>The presence of this IE depends on 2 factors:</u> <u>(a) IXIT statements in TS 34.123-2: If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.</u> <u>(b) This IE is present when this message is transmitted on downlink DCCH. Else, this IE and the sub-IEs are omitted.</u> <u>SS calculates the value of MAC-I for this message and writes to this IE.</u> <u>SS provides the value of this IE, from its internal counter, 2 (for CELL_DCH state). Not Present (for UE in other connected mode states).</u> <u>Normal event</u> <u>Not Present</u></p>

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

<u>Information Element</u>	<u>Semantics description</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	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.
<u>Integrity check info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.
<u>- Message authentication code</u>	Checked to see if it's identical to the value of XMAC-I calculated by the SS
<u>- RRC Message sequence number</u>	Checked to see if it is present. This number is used by the SS to compute the XMAC-I
<u>Error indication</u>	Not checked

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (3.84 Mcps TDD option)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>Initial UE identity</u>	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST message
<u>RRC transaction identifier</u>	0
<u>Activation time</u>	Not Present(Now)
<u>New U-RNTI</u>	
<u>- SRNC identity</u>	0000 0000 0001B
<u>- S-RNTI</u>	0000 0000 0000 0000 0001B
<u>New C-RNTI</u>	Not Present
<u>RRC State Indicator</u>	CELL_DCH
<u>UTRAN DRX cycle length coefficient</u>	9
<u>Capability update requirement</u>	Not Present
<u>- UE radio access FDD capability update requirement</u>	FALSE
<u>- UE radio access TDD capability update requirement</u>	TRUE
<u>- System specific capability update requirement list</u>	gsm

<u>Information Element</u>	<u>Value/remark</u>
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- 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	415
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present

<u>Information Element</u>	<u>Value/remark</u>
- Poll_SDU	<u>1</u>
- Last transmission PDU poll	<u>TRUE</u>
- Last retransmission PDU poll	<u>TRUE</u>
- Poll_Window	<u>99</u>
- Timer_poll_periodic	<u>Not Present</u>
- CHOICE Downlink RLC mode	<u>AM RLC</u>
- In-sequence delivery	<u>TRUE</u>
- Receiving window size	<u>128</u>
- Downlink RLC status info	
- Timer_status_prohibit	<u>200</u>
- Timer_EPC	<u>Not Present</u>
- Missing PDU indicator	<u>TRUE</u>
- Timer_STATUS_periodic	<u>Not Present</u>
- RB mapping info	
- Information for each multiplexing option	<u>2 RBMuxOptions</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>DCH</u>
- UL Transport channel identity	<u>5</u>
- Logical channel identity	<u>2</u>
- CHOICE RLC size list	<u>Configure</u>
- MAC logical channel priority	<u>2</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>DCH</u>
- DL DCH Transport channel identity	<u>10</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>RACH</u>
- UL Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
- CHOICE RLC size list	<u>Explicit List</u>
- RLC size index	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- MAC logical channel priority	<u>3</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>FACH</u>
- DL DCH Transport channel identity	<u>Not Present</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
Signalling RB information to setup	<u>(AM DCCH for NAS DT High priority)</u>
- RB identity	<u>Not Present</u>
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	<u>AM RLC</u>
- Transmission RLC discard	
- SDU discard mode	<u>No Discard</u>
- MAX_DAT	<u>415</u>
- Transmission window size	<u>128</u>
- Timer_RST	<u>500</u>
- Max_RST	<u>4</u>
- Polling info	
- Timer_poll_prohibit	<u>200</u>
- Timer_poll	<u>200</u>
- Poll_PDU	<u>Not present</u>

<u>Information Element</u>	<u>Value/remark</u>
- Poll_SDU	<u>1</u>
- Last transmission PDU poll	<u>TRUE</u>
- Last retransmission PDU poll	<u>TRUE</u>
- Poll_Windows	<u>99</u>
- Timer_poll_periodic	<u>Not Present</u>
- CHOICE Downlink RLC mode	<u>AM RLC</u>
- In-sequence delivery	<u>TRUE</u>
- Receiving window size	<u>128</u>
- Downlink RLC status info	
- Timer_status_prohibit	<u>200</u>
- Timer_EPC	<u>Not Present</u>
- Missing PDU indicator	<u>TRUE</u>
- Timer_STATUS_periodic	<u>Not Present</u>
- RB mapping info	
- Information for each multiplexing option	<u>2 RBMuxOptions</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>DCH</u>
- UL Transport channel identity	<u>5</u>
- Logical channel identity	<u>3</u>
- CHOICE RLC size list	<u>Configured</u>
- MAC logical channel priority	<u>3</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>DCH</u>
- DL DCH Transport channel identity	<u>10</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>RACH</u>
- UL Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
- CHOICE RLC size list	<u>Explicit List</u>
- RLC size index	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- MAC logical channel priority	<u>4</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>FACH</u>
- DL DCH Transport channel identity	<u>Not Present</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
Signalling RB information to setup	<u>(AM DCCH for NAS DT Low priority)</u>
- RB identity	<u>Not Present</u>
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	<u>AM RLC</u>
- Transmission RLC discard	
- SDU discard mode	<u>No discard</u>
- MAX_DAT	<u>415</u>
- Transmission window size	<u>128</u>
- Timer_RST	<u>500</u>
- Max_RST	<u>4</u>
- Polling info	
- Timer_poll_prohibit	<u>200</u>
- Timer_poll	<u>200</u>
- Poll_PDU	<u>Not present</u>

<u>Information Element</u>	<u>Value/remark</u>
- 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	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	
- UL TFCS ID	(This IE is repeated for TFC number.)
- UL TFCS	
- TFC subset	Default value is the complete existing set of transport format combinations
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE 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	

<u>Information Element</u>	<u>Value/remark</u>
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC size	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- Number of TBs and TTI lists	<u>(This IE is repeated for TFI number)</u>
- CHOICE mode	TDD
- Transmission Time Interval	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- CHOICE Logical channel list	All
- Semi-static Transport Format information	
<u>DL Transport channel information common for all transport channel</u>	
- 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
<u>Added or Reconfigured TrCH information list</u>	
- <u>Added or Reconfigured DL TrCH information</u>	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL Transport channel identity	5
-DCH quality target	
- BLER Quality target	-6.3
<u>Frequency info</u>	Not Present
<u>Maximum allowed UL TX power</u>	Not Present
<u>HOICE channel requirement</u>	Uplink DPCH info
- <u>Uplink DPCH power control info</u>	
- CHOICE mode	TDD
- CHOICE <i>TDD option</i>	3.84 Mcps
- UL target SIR	Reference to TS34.108 Parameter set
- CHOICE mode	TDD
- CHOICE <i>UL OL PC info</i>	Individually signalled
- CHOICE <i>TDD option</i>	3.84 Mcps
- <u>Individual timeslot interference info</u>	Not Present
- <u>Individual timeslot interference</u>	
- <u>DPCH Constant Value</u>	
- <u>Primary CCPCH Tx Power</u>	Not Present
- <u>Time info</u>	
- <u>Activation time</u>	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- <u>Duration</u>	Infinite
- <u>Common timeslot info</u>	
- <u>2nd interleaving mode</u>	Reference to TS34.108 clause 6.10 Parameter Set
- <u>TFCI coding</u>	Reference to TS34.108 clause 6.10 Parameter Set
- <u>Puncturing Limit</u>	Reference to TS34.108 clause 6.10 Parameter Set
- <u>Repetition Period</u>	Reference to TS34.108 clause 6.10 Parameter Set
- <u>Repetition Length</u>	Reference to TS34.108 clause 6.10 Parameter Set
- <u>Uplink DPCH timeslots and codes</u>	Default is to use the old timeslots and codes
- <u>CPCH SET Info</u>	(no data)

<u>Information Element</u>	<u>Value/remark</u>
<u>Downlink information common for all radio links</u>	
- <u>Downlink DPCH info common for all RL</u>	
- <u>Timing indicator</u>	<u>Maintain</u>
- <u>CFN-targetSFN frame offset</u>	<u>Not Present</u>
- <u>Downlink DPCH power control information</u>	
- <u>DPC mode</u>	<u>0 (single)</u>
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>CHOICE TDD option</u>	<u>3.84 Mcps (no data)</u>
- <u>Default DPCH Offset Value</u>	<u>Not Present</u>
<u>Downlink information for each radio link list</u>	
- <u>Downlink information for each radio link</u>	
- <u>Choice mode</u>	<u>TDD</u>
- <u>Primary CCPCH info</u>	
- <u>CHOICE SyncCase</u>	<u>Sync Case 1</u>
- <u>Timeslot</u>	<u>PCCPCH timeslot</u>
- <u>Cell parameters ID</u>	<u>0</u>
- <u>SCTD indicator</u>	
- <u>Downlink DPCH info for each RL</u>	
- <u>CHOICE mode</u>	<u>TDD</u>
- <u>DL CCTrCH List</u>	
- <u>TFCS ID</u>	<u>1</u>
- <u>Time info</u>	
- <u>Activation time</u>	<u>(256+CFN-(CFN mod 8 + 8))mod 256</u>
- <u>Duration</u>	<u>infinite</u>
- <u>Common timeslot info</u>	
- <u>2nd interleaving mode</u>	<u>Reference to TS34.108</u>
- <u>TFCI coding</u>	<u>TRUE</u>
- <u>Puncturing limit</u>	<u>Reference to TS34.108 clause 6 Parameter set</u>
- <u>Repetition period</u>	<u>1</u>
- <u>Repetition length</u>	<u>Empty</u>
- <u>Downlink DPCH timeslots and codes</u>	
- <u>CHOICE more timeslots</u>	
- <u>CHOICE TDD option</u>	<u>3.84 Mcps</u>
- <u>Timeslot number</u>	<u>The number of a downlink timeslot that has unassigned codes in a frame.</u>
- <u>Individual timeslot info</u>	
- <u>TFCI existence</u>	<u>TRUE</u>
- <u>Midamble shift and burst type</u>	
- <u>CHOICE TDD option</u>	<u>3.84 Mcps</u>
- <u>CHOICE Burst Type</u>	
- <u>Type 1</u>	
- <u>Midamble Allocation Mode</u>	<u>Default</u>
- <u>Midamble configuration burst type 1 and 3</u>	<u>As defined in 3GPP TS 25.221</u>
- <u>First timeslot channelisation codes</u>	
- <u>First channelisation code</u>	<u>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set.</u>
- <u>Last channelisation code</u>	<u>(j/SF) where j is the highest numbered code that is being assigned in the slot.</u>
- <u>CHOICE more timeslots</u>	<u>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..</u>
- <u>UL CCTrCH TPC List</u>	<u>Not Present</u>
- <u>SCCPCH information for FACH</u>	<u>Not Present</u>

Contents of RRC CONNECTION SETUP message: UM (Transition to CELL_DCH) (1.28 Mcps TDD option)

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	

<u>Information Element</u>	<u>Value/remark</u>
<u>Initial UE identity</u>	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
<u>RRC transaction identifier</u>	0
<u>Activation time</u>	Not Present(Now)
<u>New U-RNTI</u>	
<u>- SRNC identity</u>	0000 0000 0001B
<u>- S-RNTI</u>	0000 0000 0000 0000 0001B
<u>New C-RNTI</u>	Not Present
<u>RRC State Indicator</u>	CELL_DCH
<u>UTRAN DRX cycle length coefficient</u>	9
<u>Capability update requirement</u>	Not Present
<u>- UE radio access FDD capability</u>	FALSE
<u>update requirement</u>	
<u>- UE radio access TDD capability</u>	TRUE
<u>update requirement</u>	
<u>- System specific capability update</u>	
<u>requirement list</u>	gsm

<u>Information Element</u>	<u>Value/remark</u>
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not Present
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- Logical channel identity	1
- CHOICE RLC size list	Configured
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	1
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- MAC logical channel priority	2
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- 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	415
- Transmission window size	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present

<u>Information Element</u>	<u>Value/remark</u>
- Poll_SDU	<u>1</u>
- Last transmission PDU poll	<u>TRUE</u>
- Last retransmission PDU poll	<u>TRUE</u>
- Poll_Window	<u>99</u>
- Timer_poll_periodic	<u>Not Present</u>
- CHOICE Downlink RLC mode	<u>AM RLC</u>
- In-sequence delivery	<u>TRUE</u>
- Receiving window size	<u>128</u>
- Downlink RLC status info	
- Timer_status_prohibit	<u>200</u>
- Timer_EPC	<u>Not Present</u>
- Missing PDU indicator	<u>TRUE</u>
- Timer_STATUS_periodic	<u>Not Present</u>
- RB mapping info	
- Information for each multiplexing option	<u>2 RBMuxOptions</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>DCH</u>
- UL Transport channel identity	<u>5</u>
- Logical channel identity	<u>2</u>
- CHOICE RLC size list	<u>Configure</u>
- MAC logical channel priority	<u>2</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>DCH</u>
- DL DCH Transport channel identity	<u>10</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>RACH</u>
- UL Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
- CHOICE RLC size list	<u>Explicit List</u>
- RLC size index	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- MAC logical channel priority	<u>3</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>FACH</u>
- DL DCH Transport channel identity	<u>Not Present</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>2</u>
Signalling RB information to setup	<u>(AM DCCH for NAS DT High priority)</u>
- RB identity	<u>Not Present</u>
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	<u>AM RLC</u>
- Transmission RLC discard	
- SDU discard mode	<u>No Discard</u>
- MAX_DAT	<u>415</u>
- Transmission window size	<u>128</u>
- Timer_RST	<u>500</u>
- Max_RST	<u>4</u>
- Polling info	
- Timer_poll_prohibit	<u>200</u>
- Timer_poll	<u>200</u>
- Poll_PDU	<u>Not present</u>

<u>Information Element</u>	<u>Value/remark</u>
- Poll_SDU	<u>1</u>
- Last transmission PDU poll	<u>TRUE</u>
- Last retransmission PDU poll	<u>TRUE</u>
- Poll_Windows	<u>99</u>
- Timer_poll_periodic	<u>Not Present</u>
- CHOICE Downlink RLC mode	<u>AM RLC</u>
- In-sequence delivery	<u>TRUE</u>
- Receiving window size	<u>128</u>
- Downlink RLC status info	
- Timer_status_prohibit	<u>200</u>
- Timer_EPC	<u>Not Present</u>
- Missing PDU indicator	<u>TRUE</u>
- Timer_STATUS_periodic	<u>Not Present</u>
- RB mapping info	
- Information for each multiplexing option	<u>2 RBMuxOptions</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>DCH</u>
- UL Transport channel identity	<u>5</u>
- Logical channel identity	<u>3</u>
- CHOICE RLC size list	<u>Configured</u>
- MAC logical channel priority	<u>3</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>DCH</u>
- DL DCH Transport channel identity	<u>10</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
- RLC logical channel mapping indicator	<u>Not Present</u>
- Number of RLC logical channels	<u>1</u>
- Uplink transport channel type	<u>RACH</u>
- UL Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
- CHOICE RLC size list	<u>Explicit List</u>
- RLC size index	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- MAC logical channel priority	<u>4</u>
- Downlink RLC logical channel info	
- Number of RLC logical channels	<u>1</u>
- Downlink transport channel type	<u>FACH</u>
- DL DCH Transport channel identity	<u>Not Present</u>
- DL DSCH Transport channel identity	<u>Not Present</u>
- Logical channel identity	<u>3</u>
Signalling RB information to setup	<u>(AM DCCH for NAS DT Low priority)</u>
- RB identity	<u>Not Present</u>
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	<u>AM RLC</u>
- Transmission RLC discard	
- SDU discard mode	<u>No discard</u>
- MAX_DAT	<u>415</u>
- Transmission window size	<u>128</u>
- Timer_RST	<u>500</u>
- Max_RST	<u>4</u>
- Polling info	
- Timer_poll_prohibit	<u>200</u>
- Timer_poll	<u>200</u>
- Poll_PDU	<u>Not present</u>

<u>Information Element</u>	<u>Value/remark</u>
- 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	According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer
- MAC logical channel priority	5
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE mode	TDD
- Individual UL CCTrCH information	
- UL TFCS ID	(This IE is repeated for TFC number.)
- UL TFCS	
- TFC subset	Default value is the complete existing set of transport format combinations
- Allowed Transport Format combination	0 to MaxTFCvalue-1 (MaxTFCValue is refer to TS34.108 clause 6 Parameter Set.)
- PRACH TFCS	(This IE is repeated for TFC number.)
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- TFCS complete reconfigure information	
- CHOICE 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	

<u>Information Element</u>	<u>Value/remark</u>
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
- RLC size	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- Number of TBs and TTI lists	<u>(This IE is repeated for TFI number)</u>
- CHOICE mode	TDD
- Transmission Time Interval	<u>According to TS34.108 clause 6 for standalone 13.6 kbps signalling radio bearer</u>
- CHOICE Logical channel list	All
- Semi-static Transport Format information	
<u>DL Transport channel information common for all transport channel</u>	
- 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
<u>Added or Reconfigured TrCH information list</u>	
- <u>Added or Reconfigured DL TrCH information</u>	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
- Uplink transport channel type	DCH
- UL Transport channel identity	5
-DCH quality target	
- BLER Quality target	-6.3
<u>Frequency info</u>	Not Present
<u>Maximum allowed UL TX power</u>	Not Present
<u>HOICE channel requirement</u>	<u>Uplink DPCH info</u>
- <u>Uplink DPCH power control info</u>	
- CHOICE mode	TDD
- CHOICE <i>TDD option</i>	1.28 Mcps
- PRXDPCHdes	<u>Reference to TS34.108 Parameter set</u>
- CHOICE mode	TDD
- CHOICE <i>UL OL PC info</i>	<u>Individually signalled</u>
- CHOICE <i>TDD option</i>	1.28 Mcps
- TPC step size	Not Present
- Primary CCPCH Tx Power	Not Present
- Time info	
- Activation time	$(256+CFN-(CFN \text{ MOD } 8 + 8))\text{MOD } 256$
- Duration	Infinite
- Common timeslot info	
- 2 nd interleaving mode	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- TFCI coding	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- Puncturing Limit	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- Repetition Period	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- Repetition Length	<u>Reference to TS34.108 clause 6 Parameter Set</u>
- Uplink DPCH timeslots and codes	<u>Default is to use the old timeslots and codes</u>
- CPCH SET Info	<u>(no data)</u>
<u>Downlink information common for all radio links</u>	
- <u>Downlink DPCH info common for all RL</u>	
- Timing indicator	Maintain
- 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	
- Default DPCH Offset Value	Not Present
<u>Downlink information for each radio link list</u>	
- <u>Downlink information for each radio link</u>	
- Choice mode	TDD

<u>Information Element</u>	<u>Value/remark</u>
- Primary CCPCH info	
- CHOICE <u>SyncCase</u>	<u>Sync Case 1</u>
- Timeslot	<u>PCCPCH timeslot</u>
- Cell parameters ID	<u>0</u>
- SCTD indicator	
- Downlink DPCH info for each RL	
- CHOICE mode	<u>TDD</u>
- DL CCTrCH List	
- TFCS ID	<u>1</u>
- Time info	
- Activation time	<u>(256+CFN-(CFN mod 8 + 8))mod 256</u>
- Duration	<u>infinite</u>
- Common timeslot info	
- 2 nd interleaving mode	<u>Reference to TS34.108</u>
- TFCI coding	<u>TRUE</u>
- Puncturing limit	<u>Reference to TS34.108 clause 6 Parameter set</u>
- Repetition period	<u>1</u>
- Repetition length	<u>Empty</u>
- Downlink DPCH timeslots and codes	
- CHOICE <u>more timeslots</u>	
- CHOICE TDD option	<u>1.28 Mcps</u>
- Timeslot number	<u>The number of a downlink timeslot that has unassigned codes in a subframe.</u>
- Individual timeslot info	
- TFCI existence	<u>TRUE</u>
- Midamble shift and burst type	
- CHOICE TDD option	<u>1.28 Mcps</u>
-CHOICE Burst Type	
-Type 1	
-Midamble Allocation Mode	<u>Default</u>
- Midamble configuration	<u>As defined in 3GPP TS 25.221</u>
- First timeslot channelisation codes	
- First channelisation code	<u>(i/SF) where i is the lowest numbered code that is being assigned and SF is specified in TS34.108 clause 6 Parameter Set..</u>
- Last channelisation code	<u>(j/SF) where j is the highest numbered code that is being assigned in the slot.</u>
- CHOICE more timeslots	<u>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..</u>
- UL CCTrCH TPC List	<u>Not Present</u>
-SCCPCH information for FACH	<u>Not Present</u>

Contents of RRC CONNECTION SETUP COMPLETE message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	<u>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.</u>
<u>START list</u>	<u>Not checked</u>
<u>UE radio access capability</u>	<u>Not checked</u>
<u>UE radio access capability extension</u>	<u>Not checked</u>
<u>UE system specific capability</u>	<u>Not checked</u>

Contents of SECURITY MODE COMMAND message: AM

<u>Information Element</u>	<u>Value/remark</u>
<u>Message Type</u>	
<u>RRC transaction identifier</u>	Arbitrarily selects an integer between 0 and 3
<u>Integrity check info</u>	
- <u>Message authentication code</u>	Set to an arbitrarily selected 32-bits integer
- <u>RRC Message Sequence Number</u>	Set to an arbitrarily selected integer between 0 and 15
<u>Security capability</u>	
- <u>Ciphering algorithm capability</u>	
- <u>UEA0</u>	If ciphering is not indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- <u>UEA1</u>	If ciphering is indicated to be active on IXIT statements in TS 34.123-2, set this IE to TRUE.
- <u>Spare</u>	FALSE
- <u>Integrity protection algorithm capability</u>	0000000000000010B (UIA1)
- <u>UIA1</u>	TRUE
- <u>Spare</u>	FALSE
<u>Ciphering mode info</u>	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.
- <u>Ciphering mode command</u>	Start/restart
- <u>Ciphering algorithm</u>	Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message.
- <u>Ciphering activation time for DPCH</u>	Not Present
- <u>Radio bearer downlink ciphering activation time info</u>	
- <u>Radio bearer activation time</u>	
- <u>RB identity</u>	1
- <u>RLC sequence number</u>	Current RLC SN+2
- <u>RB identity</u>	2
- <u>RLC sequence number</u>	Current RLC SN+2
- <u>RB identity</u>	3
- <u>RLC sequence number</u>	Current RLC SN + 2
- <u>RB identity</u>	4
- <u>RLC sequence number</u>	Current RLC SN + 2
<u>Integrity protection mode info</u>	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- <u>Integrity protection mode command</u>	Start
- <u>Downlink integrity protection activation info</u>	Not Present
- <u>Integrity protection algorithm</u>	UIA1
- <u>Integrity protection initialisation number</u>	SS selects an arbitrary 32 bits number for FRESH
<u>CN domain identity</u>	Supported domain
<u>UE system specific security capability</u>	Not Checked

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
<u>Message Type</u> <u>RRC transaction identifier</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>Uplink integrity protection activation info</u> <u>Radio bearer uplink ciphering activation time info</u>	<p>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.</p> <p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Not checked.</p> <p>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.</p>

Contents of UPLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
<u>Message Type</u> <u>Integrity check info</u> <u>- Message authentication code</u> <u>- RRC Message sequence number</u> <u>CN domain identity</u> <u>NAS message</u> <u>Measured results on RACH</u>	<p>The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE shall be present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs shall be absent.</p> <p>This IE is checked to see if it is present. The value is compared against the XMAC-I value computed by SS.</p> <p>This IE is checked to see if it is present. The value is used by SS to compute the XMAC-I value.</p> <p>Checked to see if set to supported CN domain as specified in the IXIT statements</p> <p>Set according to that indicated in specific message content clause</p> <p>Not checked</p>

CHANGE REQUEST

⌘ **TS 34.108 CR 120** ⌘ rev **-** ⌘ Current version: **3.7.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment

Source: ⌘ Ericsson

Work item code: ⌘ **Date:** ⌘ 2002-05-12

Category: ⌘ **F** **Release:** ⌘ **R99**
Use one of the following categories: Use one of the following releases:
F (correction) **2** (GSM Phase 2)
A (corresponds to a correction in an earlier release) **R96** (Release 1996)
B (addition of feature), **R97** (Release 1997)
C (functional modification of feature) **R98** (Release 1998)
D (editorial modification) **R99** (Release 1999)
Detailed explanations of the above categories can be found in 3GPP [TR 21.900](#). **REL-4** (Release 4)
REL-5 (Release 5)

Reason for change: ⌘ Current generic setup procedures use the 3.4 kbps signalling radio bearer in the RRC connection setup procedure. The 13.6 kbps signalling radio bearer would represent a more likely configuration to be used in real network as it provides for better signalling performance, e.g. a faster call setup.

Summary of change: ⌘ 1. Editorial corrections
2. Basic generic procedures (7.1):
▪ removed reference to 3.4 kbps signalling radio bearer for the specific message content of the RRC CONNECTION SETUP message.
▪ added reference to clause in 34.108 for the 12.2 speech radio bearer in the specific message content of RADIO BEARER SETUP.
Changes to default message of RRC CONNECTION SETUP have been merged into CR for to clause 9.1 and 9.2 in [TDOC number TBD].

Consequences if not approved: ⌘ Signalling radio bearer used in the signalling tests will not be representative for what will be used in real networks.

Clauses affected: ⌘ 7.1.2.3, 7.1.2.4.3, 7.1.3.4.1

Other specs affected: ⌘ Other core specifications ⌘
 Test specifications
 O&M Specifications

Other comments: ☒

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☒ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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.

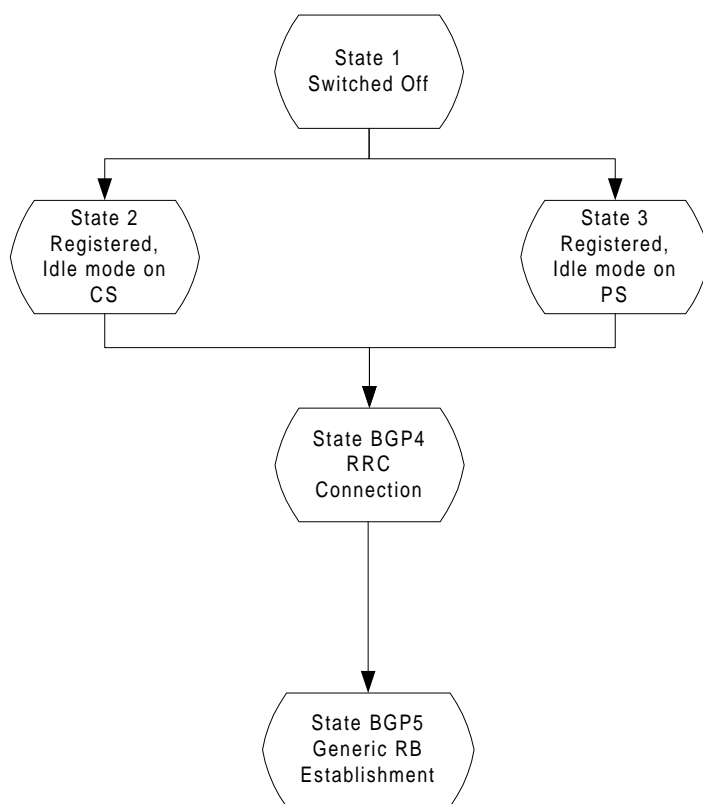


Figure 7.1.1: UE Test States for Basic Generic Procedures

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 be 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 COONNECTION [SETUP](#) COMPLETE message, the procedure is complete.

Step	Direction		Message	Comments
	UE	SS		
1	←		SYSTEM INFORMATION (BCCH)	Default SI messages
2	←		PAGING TYPE 1 (PCCH)	Sent on appropriate cycle
3	→		RRC CONNECTION REQUEST (CCCH)	RRC
4	←		RRC CONNECTION SETUP (CCCH)	RRC
5	→		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:

Information Element				Value/Remark
Message Type				PAGING TYPE 1
UE Information elements				
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 elements				
BCCH modification info				omit
NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the Paging cause and CN domain identity are selected in accordance with the requirements of the following procedure.				

7.1.2.4.2 RRC CONNECTION REQUEST

This message is sent by the UE to the SS using the TM-RLC SAP. It is sent on the CCCH Logical channel.

Information Element			Value/Remark
Message Type			RRC CONNECTION REQUEST
UE information 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
Initial UE capability	Maximum number of AM entities		As declared in UE ICS
Establishment cause			As appropriate
Protocol error indicator			FALSE
Measurement information elements			
Measured results on RACH			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 for 3.4k bit/s signalling radio bearer			
TrCH Information Elements			
Use default for 3.4k bit/s signalling radio bearer			
Frequency info			As specified by default 1 cell environment
Uplink radio resources			
Use default			
Downlink radio resources			
Use default			

7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent 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		Not checked	
UE radio access capability	Conformance test compliance		R99
	PDCP capability	Support for lossless SRNS relocation	Not checked
		Supported algorithm types	Not checked
	RLC capability	Total RLC AM buffer size	Not checked
		Maximum number of AM entities	Not checked
	Transport channel capability	Downlink	
		Max no of bits received	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of received transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
		Support for turbo decoding	Not checked
		Uplink	
		Max no of bits transmitted	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of transmitted transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
		Support for turbo encoding	Not checked
	RF capability	UE power class	As declared for UE
		Tx/Rx frequency separation	Not checked
	Physical channel capability	Downlink	
		Maximum number of simultaneous CTrCH	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

Information Element			Value/Remark
		Support of PCPCH	Not checked
	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 checked
		GSM 900 DL	Not checked
		DCS 1800 DL	Not checked
		GSM 1900 DL	Not checked
		Multi-carrier measurement DL	Not checked
		Need for uplink compressed mode	Not checked
		FDD measurements UL	Not checked
		TDD measurements UL	Not checked
		GSM 900 UL	Not checked
		DCS 1800 UL	Not checked
		GSM 1900 UL	Not checked
		Multi-carrier measurement UL	Not checked
UE system specific capability			Not checked

7.1.3 Radio Bearer Setup Procedure

7.1.3.1 Initial conditions

The procedure specified in clause 7.1.2 will be run. This procedure starts from the successful completion of clause 7.1.2.

7.1.3.2 Definition of system information messages

The default system information messages are used.

7.1.3.3 Procedure

- The SS sends a RADIO BEARER SETUP message to the UE on the DCCH established by the RRC Connection Establishment procedure.
- The SS receives a RADIO BEARER SETUP COMPLETE message from the UE in RLC Acknowledged mode on the DCCH.

On reception of the RADIO BEARER SETUP COMPLETE the procedure is complete.

Step	Direction		Message	Comments
	UE	SS		
1	←		RADIO BEARER SETUP (DCCH)	RRC
2	→		RADIO BEARER SETUP COMPLETE (DCCH)	RRC

7.1.3.4 Specific message contents

7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP
UE Information Elements	
CN Information Elements	
RB Information Elements	
RAB information for setup	Default parameters for 12.2 kbps speech RAB + 3.4 kbps signalling radio bearer according to TS 34.108 clause 6.10.2.4.1.4

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	

CHANGE REQUEST

⌘ **TS 34.108 CR 121** ⌘ rev **-** ⌘ Current version: **4.2.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: ⌘ (U)SIM ME/UE Radio Access Network Core Network

Title: ⌘ Update of generic setup procedures to use 13.6 kbps SRB in RRC connection establishment

Source: ⌘ Ericsson

Work item code: ⌘ TEI

Date: ⌘ 2002-05-12

Category: ⌘ **A**

Use one of the following categories:

F (correction)

A (corresponds to a correction in an earlier release)

B (addition of feature),

C (functional modification of feature)

D (editorial modification)

Detailed explanations of the above categories can be found in 3GPP [TR 21.900](#).

Release: ⌘ **R99**

Use one of the following releases:

2 (GSM Phase 2)

R96 (Release 1996)

R97 (Release 1997)

R98 (Release 1998)

R99 (Release 1999)

REL-4 (Release 4)

REL-5 (Release 5)

Reason for change: ⌘ Current generic setup procedures use the 3.4 kbps signalling radio bearer in the RRC connection setup procedure. The 13.6 kbps signalling radio bearer would represent a more likely configuration to be used in real network as it provides for better signalling performance, e.g. a faster call setup.

Summary of change: ⌘ 1. Editorial corrections

2. Basic generic procedures (7.1):

- removed reference to 3.4 kbps signalling radio bearer for the specific message content of the RRC CONNECTION SETUP message.
- added reference to clause in 34.108 for the 12.2 speech radio bearer in the specific message content of RADIO BEARER SETUP.

Changes to default message of RRC CONNECTION SETUP have been merged into CR for to clause 9.1 and 9.2 in [TDOC number TBD].

Consequences if not approved: ⌘ Signalling radio bearer used in the signalling tests will not be representative for what will be used in real networks.

Clauses affected: ⌘ 7.1.2.3, 7.1.2.4.3, 7.1.3.4.1

Other specs affected: ⌘ Other core specifications ⌘ Test specifications O&M Specifications

Other comments: ☒

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ☒ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

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.

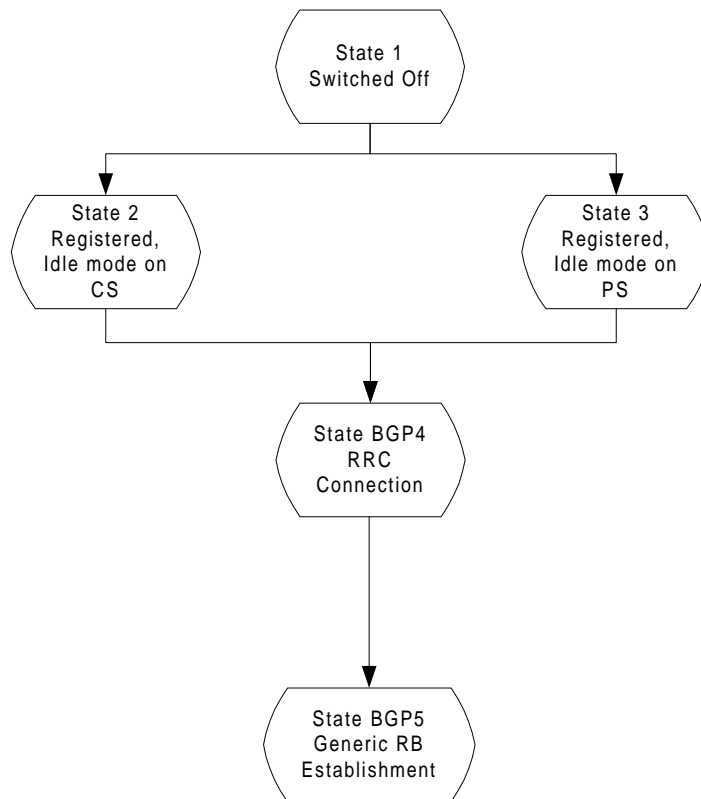


Figure 7.1.1: UE Test States for Basic Generic Procedures

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 be the default parameters for a single cell, unless otherwise specified in the test case.

User Equipment:

Unless otherwise specified in the test case, the UE will be in the following state:

- Default test operating conditions.
- The UE shall have followed the generic registration procedure for CS or PS operations, and will be in Idle Mode, Camped-on (State 2 or State 3).

7.1.2.2 Definition of system information messages

The default system information messages are used.

7.1.2.3 Procedure

- The SS sends a PAGING TYPE 1 message to the UE on the appropriate paging block, and with the IE "Paging record" containing the TMSI or P-TMSI of the UUT.
- The SS receives an RRC CONNECTION REQUEST message from the UE.
- On receipt of the RRC CONNECTION REQUEST the SS shall transmit a RRC CONNECTION SETUP message to the UE. The SS shall wait for the receipt of an RRC CONNECTION [SETUP](#) COMPLETE message from the UE.
- On receipt of an RRC CONNECTION [SETUP](#) COMPLETE message, the procedure is complete.

Step	Direction		Message	Comments
	UE	SS		
1	←		SYSTEM INFORMATION (BCCH)	Default SI messages
2	←		PAGING TYPE 1 (PCCH)	Sent on appropriate cycle
3	→		RRC CONNECTION REQUEST (CCCH)	RRC
4	←		RRC CONNECTION SETUP (CCCH)	RRC
5	→		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:

Information Element				Value/Remark
Message Type				PAGING TYPE 1
UE Information elements				
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 elements				
BCCH modification info				omit
NOTE: These defaults are applied if no subsequent procedure is to be run. Otherwise, the Paging cause and CN domain identity are selected in accordance with the requirements of the following procedure.				

7.1.2.4.2 RRC CONNECTION REQUEST

This message is sent by the UE to the SS using the TM-RLC SAP. It is sent on the CCCH Logical channel.

Information Element			Value/Remark
Message Type			RRC CONNECTION REQUEST
UE information 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
Initial UE capability	Maximum number of AM entities		As declared in UE ICS
Establishment cause			As appropriate
Protocol error indicator			FALSE
Measurement information elements			
Measured results on RACH			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 for 3.4k bit/s signalling radio bearer			
TrCH Information Elements			
Use default for 3.4k bit/s signalling radio bearer			
Frequency info			As specified by default 1 cell environment
Uplink radio resources			
Use default			
Downlink radio resources			
Use default			

7.1.2.4.4 RRC CONNECTION SETUP COMPLETE

This message is sent 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		Not checked	
UE radio access capability	Conformance test compliance		R99
	PDCP capability	Support for lossless SRNS relocation	Not checked
		Supported algorithm types	Not checked
	RLC capability	Total RLC AM buffer size	Not checked
		Maximum number of AM entities	Not checked
	Transport channel capability	Downlink	
		Max no of bits received	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of received transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
		Support for turbo decoding	Not checked
		Uplink	
		Max no of bits transmitted	Not checked
		Max convolutionally coded bits received	Not checked
		Max turbo coded bits received	Not checked
		Maximum number of simultaneous transport channels	Not checked
		Max no of transmitted transport blocks	Not checked
		Maximum number of TFC in the TFCS	Not checked
		Maximum number of TF	Not checked
		Support for turbo encoding	Not checked
	RF capability	UE power class	As declared for UE
		Tx/Rx frequency separation	Not checked
	Physical channel capability	Downlink	
		Maximum number of simultaneous CTrCH	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

Information Element			Value/Remark
		Support of PCPCH	Not checked
	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 checked
		GSM 900 DL	Not checked
		DCS 1800 DL	Not checked
		GSM 1900 DL	Not checked
		Multi-carrier measurement DL	Not checked
		Need for uplink compressed mode	Not checked
		FDD measurements UL	Not checked
		TDD measurements UL	Not checked
		GSM 900 UL	Not checked
		DCS 1800 UL	Not checked
		GSM 1900 UL	Not checked
		Multi-carrier measurement UL	Not checked
UE system specific capability			Not checked

7.1.3 Radio Bearer Setup Procedure

7.1.3.1 Initial conditions

The procedure specified in clause 7.1.2 will be run. This procedure starts from the successful completion of clause 7.1.2.

7.1.3.2 Definition of system information messages

The default system information messages are used.

7.1.3.3 Procedure

- The SS sends a RADIO BEARER SETUP message to the UE on the DCCH established by the RRC Connection Establishment procedure.
- The SS receives a RADIO BEARER SETUP COMPLETE message from the UE in RLC Acknowledged mode on the DCCH.

On reception of the RADIO BEARER SETUP COMPLETE the procedure is complete.

Step	Direction		Message	Comments
	UE	SS		
1	←		RADIO BEARER SETUP (DCCH)	RRC
2	→		RADIO BEARER SETUP COMPLETE (DCCH)	RRC

7.1.3.4 Specific message contents

7.1.3.4.1 RADIO BEARER SETUP

The RADIO BEARER SETUP message is sent from the System Simulator to the UE, using AM-RLC on the DCCH logical channel.

The default RRC CONNECTION SETUP message for the setup of a speech radio access bearer is used except for the IE fields specified below.

Information Element	Value/Remark
Message Type	RADIO BEARER SETUP
UE Information Elements	
CN Information Elements	
RB Information Elements	
RAB information for setup	Default parameters for 12.2 kbps speech RAB, + 3.4 kbps signalling radio bearer according to TS 34.108 clause 6.10.2.4.1.4

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	