Technical Specification Group Terminals Meeting #19, Birmingham, UK, 12-14 March 2003

Source:	T1
Title:	CR's to TS 34.108 v3.10.0 for approval
Agenda item:	5.1.3
Document for:	Approval

This document contains 17 CRs to TS 34.108 v3.10.0. These CRs have been agreed by T1 and are put forward to TSG T for approval.

CRs related to general corrections to R99:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd- Level	Workitem
34.108	174	-	R99	Combine all Radio Bearer Setup messages into one table	F	3.10.0	3.11.0	T1-030039	
34.108	176	-	R99	Corrections to SB and SIB configurations in clause 6.1 as T1S030045rev1	F	3.10.0	3.11.0	T1-030041	
34.108	178	-	R99	Correction to TS34.108 R99 ; PAGING TYPE1 message (Packet in PS)	F	3.10.0	3.11.0	T1-030043	
34.108	180	-	R99	Clarification of authentication test algorithm and GSM cipher key	F	3.10.0	3.11.0	T1-030045	
34.108	182	-	R99	Addition of simulated network environment for inter- RAT test cases	F	3.10.0	3.11.0	T1-030047	
34.108	184	-	R99	Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1	F	3.10.0	3.11.0	T1-030049	
34.108	186	-	R99	Addition of default inter-RAT handover messages	F	3.10.0	3.11.0	T1-030051	
34.108	188	-	R99	Correction of activation time IEs in default messages	F	3.10.0	3.11.0	T1-030053	
34.108	190	-	R99	Correction to default SECURITY MODE COMMAND message	F	3.10.0	3.11.0	T1-030055	
34.108	192	-	R99	Addition of option for UL CM only in default reference CM patterns	F	3.10.0	3.11.0	T1-030057	
34.108	196	-	R99	Update of the RRC connection request messages in 34.108 R99	F	3.10.0	3.11.0	T1-030062	
34.108	203	-	R99	Modification to Generic Registration Procedures	F	3.10.0	3.11.0	T1-030221	
34.108	205	-	R99	Update of default configurations to enable testing of low end UE	F	3.10.0	3.11.0	T1-030227	

CRs related to reference RAB configurations R99:

Spec	CR	Rev	Release	Subject	Cat	Version Current	Version -New	Doc-2nd- Level	Workitem
34.108	172	-	R99	RAB Removal from R99 TS 34.108 as T1S030001rev1	F	3.10.0	3.11.0	T1-030036	
34.108	194	-	R99	Introduction of a reference RB configuration for RMC for BTFD tests (R99)	F	3.10.0	3.11.0	T1-030059	

CRs related to TDD mode R99:

Spec	CR	Rev	Release	Subject	Cat	Version	Version	Doc-2nd-	Workitem
						Current	-New	Level	
34.108	199	-	R99	Update of default parameters for 1 to 8 cell	F	3.10.0	3.11.0	T1-030131	
				environments (TDD), clause 6.1.4, Rel 99					
34.108	201	-	R99	Update of Multi-cell environment for default radio	F	3.10.0	3.11.0	T1-030209	
				conditions (TDD), clause 6.1.6 (Inclusion of cell 4), Rel					

99		

3GPP TSGT #18 San Antonio 10-14 Feb 03

Tdoc T1-030036

3GPP TSG-T1 Sig SWG #27 San Antonio 11-13 Feb 03

Tdoc #T1S030019

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Proposed chang	Proposed change affects: UICC apps# ME X Radio Access Network Core Network							Network		
Title:	ж	Remova	al of RAB Combi	nations fro	m TS	34.10	08			
Source:	ж	Three (I	Hutchison 3G UP	<)						
Work item code	:¥	TEI						Date: ೫	07/01/2003	3
Category:		F (co A (c B (a C (fu D (e Detailed e	of the following cat prrection) prresponds to a co ddition of feature), unctional modificatio ditorial modificatio xplanations of the n 3GPP <u>TR 21.90</u>	orrection in ion of featu n) above cate	re)		lease,	2) R96 R97 R98 R99 Rel-4	R99 the following r (GSM Phase (Release 199 (Release 199 (Release 199 (Release 4) (Release 5) (Release 6)	2) 6) 7) 8)

Reason for change: * RAN 2 WG has identified a number of RAB combinations considered by many companies as not providing any useful additional test coverage, that is not already provided by other RAB combination test cases already catured in section 6.10.2. That being the case, the removal of the specified combinations will reduce the burden of effort on T1 and the test industry to provide test cases that are not needed. Also the scope of conformance testing is reduced slightly without impacting the quality of UEs being submitted for GCF certification. The key benefit of this is time saved could be spent on higher priority test cases.

Summary of change: # It is proposed to remove the following combinations of RABs and signalling RBs

6.10.2.2	RAB and SRB
18)	Streaming / unknown / UL:0 DL:64 kbps / CS UL:3.4 DL:3.4 kbps SRBs for DCCH
19)	Streaming / unknown / UL:64 DL:0 kbps / CS + 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
36)	Interactive or background / UL:128 DL:2048 kbps / PS RAB +

1	_	
		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
	46)	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS or PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
	54)	Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS + UL:3.4 DL:3.4 kbps SRBs for DCCH
	2. Comb	vinations on DSCH and DPCH
	6.10.2.	.2 RAB and SRB
	1)	Interactive or background / UL:64 DL:256 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
Consequences if not approved:		ified RABs will, by definition, be subjected to test case preparation will probably not be used .
Clauses affected:	策 Sect 6.10	0.2
Other specs affected:	X Tes	ner core specifications % st specifications TS 34.123 M Specifications
Other comments:	ж	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

< New section starts>

6.10.2 RAB and signalling RB for FDD

6.10.2.1 RABs and signalling RBs

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

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

#	Traffic class [15]	SSD [15]	Max. rate, kbps	CS/PS
1	Conversational	Speech	UL:12.2 DL:12.2	CS
1a	Conversational	Speech	UL:(12.2 7.95 5.9	CS CS
		-	4.75) DL:(12.2	
			7.95 5.9 4.75)	
2	Conversational	Speech	UL:10.2 DL:10.2	CS
2a	Conversational	Speech	UL:(10.2, 6.7, 5.9,	CS
			4.75) DL:(10.2,	
			6.7, 5.9, 4.75)	
3	Conversational	Speech	UL:7.95 DL:7.95	CS
4	Conversational	Speech	UL:7.4 DL:7.4	CS
4a	Conversational	Speech	UL:(7.4, 6.7, 5.9,	CS
			4.75) DL:(7.4, 6.7,	
			5.9, 4.75)	
5	Conversational	Speech	UL:6.7 DL:6.7	CS
6	Conversational	Speech	UL:5.9 DL:5.9	CS
7	Conversational	Speech	UL:5.15 DL:5.15	CS
8	Conversational	Speech	UL:4.75 DL:4.75	CS
9	Conversational	Unknown	UL:28.8 DL:28.8	CS
10	Conversational	Unknown	UL:64 DL:64	CS
11	Conversational	Unknown	UL:32 DL:32	CS
12	Streaming	Unknown	UL:14.4 DL:14.4	CS
13	Streaming	Unknown	UL:28.8 DL:28.8	CS
14	Streaming	Unknown	UL:57.6 DL:57.6	CS
15	VoidStreaming	Unknown	UL:0-DL:64	CS
15a	Streaming	Unknown	UL:16 DL:64	PS
16	VoidStreaming	Unknown	UL:64 DL:0	CS
17	Void			
18	Void			
19	Void	N1/A		50
20	Interactive or Background	N/A	UL:32 DL:8	PS
20a	Interactive or Background	N/A	UL:8 DL:8	PS
20b	Interactive or Background	N/A	UL:16 DL:16	PS
20c	Interactive or Background	N/A	UL:32 DL:32	PS
21	VoidInteractive or Background	N/A	UL:64 DL:8	PS
22	Interactive or Background	N/A	UL:32 DL:64	PS
22	Interactive or Background	N/A N/A	UL:64 DL:64	PS
23	Interactive or Background	N/A N/A	UL:64 DL:128	PS
24	Interactive or Background	N/A N/A	UL:128 DL:128	PS PS
25	Interactive or Background	N/A N/A	UL:64 DL:384	PS
20	Interactive or Background	N/A N/A	UL:128 DL:384	PS PS
28	Interactive or Background	N/A N/A	UL:384 DL:384	PS PS
20	Interactive or Background	N/A N/A	UL:64 DL:2048	PS PS
	Interactive of Background		UL:128 DL:2048	PS PS
30 31	VoidInteractive or	N/A N/A	UL:384 DL:2048	PS PS
51	Background	+ *//*	UL.001 UL.2010	r ∂
32	Interactive or Background	N/A	UL:64 DL:256	PS
33	Interactive or Background	N/A N/A	UL:0 DL:32	PS PS
33	Interactive or Background	N/A N/A	UL:32 DL: 0	PS PS
35	Interactive or Background	N/A N/A	UL:64 DL:144	PS PS
35	Interactive of Background	N/A N/A	UL:144 DL:144	PS PS
30	meractive or background	IN/A	UL.144 DL.144	г٥

Table 6.10.2.1.1: Prioritised RABs.

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

Table 6.10.2.1.2: Signalling RBs

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 DCCHVoid.
- 19) Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCHVoid.
- 20) Void
- 21) Void
- 22) Void
- 23) Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23a) Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23b) Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23c) Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 23d) Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI) + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 24) Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCHVoid.
- 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 DCCHVoid.
- 37) Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCHVoid.
- 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.

8

- 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 DCCHVoid.
- 47) Void
- 48) Void
- 49) Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB
 + Conversational / unknown / UL:64 DL:64 kbps / CS RAB
 + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 49a) Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 50) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51a) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 51b) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or Background / UL:16 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.
- 52) Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.

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

Combinations on DSCH and DPCH

- 1) Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCHVoid.
- 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 DCCHVoid.
- 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.

<New section ends>

<New section starts>

6.10.2.4.1.18	Void. Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.18.1	- Uplink
6.10.2.4.1.18.1.1	Transport channel parameters
6.10.2.4.1.18.1.1.1	Transport channel parameters for Streaming / unknown / UL:0 kbps / CS RAB
N/A	

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.18.1.1.3 TFCS

See clause 6.10.2.4.1.2.1.1.2.

6.10.2.4.1.18.1.2 Physical channel parameters

See clause 6.10.2.4.1.2.1.2.

6.10.2.4.1.18.2 Downlink

6.10.2.4.1.18.2.1 Transport channel parameters

6.10.2.4.1.18.2.1.1 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS RAB

Higher Iayer	RAB/Signalling RB	RAB				
RLC	Logical channel type	DTCH				
	RLC mode	ŦM				
	Payload sizes, bit	320				
	Max data rate, bps	64000				
	TrD PDU header, bit	θ				
MAC	MAC header, bit	θ				
	MAC multiplexing	N/A				
Layer 1	TrCH type	DCH				
	TB sizes, bit	320				
	TFS TF0, bits	0x320 (alt. 1x0) (note)				
	TF1, bits	1x320				
	TF2, bits	2x320				
	TF3, bits	4x320				
	TF4, bits	8x320				
	TTI, ms	40				
	Coding type	Ŧ C				
	CRC, bit	16				
	Max number of bits/TTI after channel coding	8076				
	RM attribute	125-165				
NOTE:	Alternative 1x0 is used to have CRC present in all transpo	ort formats.				

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.18.2.1.3 TFCS

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

6.10.2.4.1.18.2.2 Physical channel parameters

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

6.10.2.4.1.19 <u>Void. Streaming / unknown / UL:64 DL:0 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs</u> for DCCH

6.10.2.4.1.19.1 Uplink

6.10.2.4.1.19.1.1 Transport channel parameters

6.10.2.4.1.19.1.1.1 Transport channel parameters for Streaming / unknown / UL:64 kbps / CS RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	ŦM
	Payload sizes, bit	320
	Max data rate, bps	<u>64000</u>
	TrD PDU header, bit	θ
MAC	MAC header, bit	θ
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	320
	TFS TF0, bits	0x320
	TF1, bits	1x320
	TF2, bits	2x320
	TF3, bits	4 x320
	TF4, bits	8x320
	TTI, ms	40
	Coding type	Ŧ C
	CRC, bit	16
	Max number of bits/TTI after channel coding	8076
	Uplink: Max number of bits/radio frame before	2019
	rate matching	
	RM attribute	125-165

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.19.1.1.3 TFCS

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

6.10.2.4.1.19.1.2 Physical channel parameters

DPCH	Min spreading factor	16
Uplink	Max number of DPDCH data bits/radio	2400
	f rame	
	Puncturing Limit	4

6.10.2.4.1.19.2 Downlink

6.10.2.4.1.19.2.1 Transport channel parameters

6.10.2.4.1.19.2.1.1 Transport channel parameters for Streaming / unknown / DL:0 kbps / CS RAB

<mark>N∕A</mark>

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.19.2.1.3 TFCS

See clause 6.10.2.4.1.2.2.1.2.

6.10.2.4.1.19.2.2 Physical channel parameters

See clause 6.10.2.4.1.2.2.2.

Release 5	13 3GPP TS 34.108 V5.1.0	D (2002-09)
6.10.2.4.1.20	Void	
6.10.2.4.1.21	Void	
6.10.2.4.1.22	Void	
6.10.2.4.1.23	Interactive or background / UL:32 DL:8 kbps / PS RAB + UL:3.4 DL:3 DCCH	.4 kbps SRBs for
6.10.2.4.1.23.1	Uplink	
6.10.2.4.1.23.1.1	Transport channel parameters	

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23.1.1.3 TFCS

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

6.10.2.4.1.23.1.2 Physical channel parameters

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

- 6.10.2.4.1.23.2 Downlink
- 6.10.2.4.1.23.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23.2.1.3 TFCS

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

6.10.2.4.1.23.2.2 Physical channel parameters

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

15

- 6.10.2.4.1.23a Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.23a.1 Uplink

6.10.2.4.1.23a.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23a.1.1.3 TFCS

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

6.10.2.4.1.23a.1.2 Physical channel parameters

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

- 6.10.2.4.1.23a.2 Downlink
- 6.10.2.4.1.23a.2.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23a.2.1.3 TFCS

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

6.10.2.4.1.23a.2.2 Physical channel parameters

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

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

17

6.10.2.4.1.23b.1 Uplink

6.10.2.4.1.23b.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23b.1.1.3 TFCS

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

6.10.2.4.1.23b.1.2 Physical channel parameters

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

- 6.10.2.4.1.23b.2 Downlink
- 6.10.2.4.1.23b.2.1 Transport channel parameters

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

Higher layer	RAB/Sign	alling RB	RAB
RLC	Logical ch	annel type	DTCH
	RLC mod		AM
	Payload s	izes, bit	320
	Max data	rate, bps	16000
	AMD PDU	J header, bit	16
MAC	MAC header, bit		0
	MAC mult	iplexing	N/A
Layer 1	TrCH type		DCH
-	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
	TTI, ms		40
	Coding type		TC
	CRC, bit		16
	Max numb	per of bits/TTI after channel coding	2124
	RM attribu	ute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23b.2.1.3 TFCS

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

6.10.2.4.1.23b.2.2 Physical channel parameters

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

19

- 6.10.2.4.1.23c Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.23c.1 Uplink

6.10.2.4.1.23c.1.1 Transport channel parameters

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

Higher layer	RAB/Sig	gnalling RB	RAB
RLC	Logical channel type		DTCH
	RLC mo		AM
	Payload	sizes, bit	320
	Max dat	ta rate, bps	32000
	AMD PE	DU header, bit	16
MAC	MAC he	eader, bit	0
	MAC m	ultiplexing	N/A
Layer 1	TrCH type		DCH
	TB sizes, bit		336
	TFS	TF0, bits	0x336
		TF1, bits	1x336
		TF2, bits	2x336
		TF3, bits	3x336
		TF4, bits	4x336
	TTI, ms		40
	Coding	type	TC
	CRC, bi	t	16
	Max nu	mber of bits/TTI after channel coding	4236
		Max number of bits/radio frame	1059
		ate matching	
	RM attri	bute	135-175

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23c.1.1.3 TFCS

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

6.10.2.4.1.23c.1.2 Physical channel parameters

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

- 6.10.2.4.1.23c.2 Downlink
- 6.10.2.4.1.23c.2.1 Transport channel parameters

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

Higher layer	RAB/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

DPCH Downlink	DTX position		Flexible
DOWININK	Spreading factor		64
			04
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	4
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	60
		Number of data bits/frame	900

- 6.10.2.4.1.23d Interactive or background / UL:32 DL:32 kbps / PS RAB (20 ms TTI)+ UL:3.4 DL:3.4 kbps SRBs for DCCH
- 6.10.2.4.1.23d.1 Uplink
- 6.10.2.4.1.23d.1.1 Transport channel parameters

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

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

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.23d.1.1.3 TFCS

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

6.10.2.4.1.23d.1.2 Physical channel parameters

DPCH Min spreading factor Uplink Max number of DPDCH data bits/radio frame Puncturing Limit		32
		1200
		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/Sigr	nalling RB	RAB
RLC	Logical cl	nannel type	DTCH
	RLC mod		AM
	Payload s	sizes, bit	320
	Max data	rate, bps	32000
	AMD PDI	J header, bit	16
MAC	MAC hea	der, 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 attrib	ute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.23d.2.1.3 TFCS

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

6.10.2.4.1.24 <u>Void.</u> Interactive or background / UL:64 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.24.1 Uplink

6.10.2.4.1.24.1.1 Transport channel parameters

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

Higher	RAB/Signalling RB	RAB
layer		
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	64000
	AMD PDU header, bit	16
MAC	MAC header, bit	θ
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336
	TF3, bits	3x336
	TF4, bits	4x336
	TTI, ms	20
	Coding type	Ŧ C
	CRC, bit	16
	Max number of bits/TTI after channel coding	4 236
	Uplink: Max number of bits/radio frame before	2118
	rate matching	
	RM attribute	130-170

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

See clause 6.10.2.4.1.2.1.1.1.

6.10.2.4.1.24.1.1.3 TFCS

TFCS size	40
TFCS	(64 kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF2, TF0), (TF3, TF0), (TF4, TF0),
	(TF0, TF1), (TF1, TF1), (TF2, TF1), (TF3, TF1), (TF4, TF1)

6.10.2.4.1.24.1.2 Physical channel parameters

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

6.10.2.4.1.24.2 Downlink

See clause 6.10.2.4.1.23.2.

<New section ends>

<New section starts>

Release 5

6.10.2.4.1.36	VoidInteractive or background / UL:128 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.36.1	
See clause 6.10.2.4.1.2	1 8.1.
<u>6.10.2.4.1.36.2</u>	- Downlink
See clause 6.10.2.4.1.3	1 5.2.
6.10.2.4.1.37	Void. Interactive or background / UL:384 DL:2048 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH
6.10.2.4.1.37.1	
See clause 6.10.2.4.1.3	4.1.
6.10.2.4.1.37.2	- Downlink
See clause 6.10.2.4.1.3	1 <u>5.2.</u>
<new ends="" section=""></new>	
<new section="" starts=""></new>	
6.10.2.4.1.46	Void. 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
<u>6.10.2.4.1.46.1</u>	
See clause 6.10.2.4.1.4	.1.
6.10.2.4.1.46.2	Downlink
6.10.2.4.1.46.2.1	Transport channel parameters
6.10.2.4.1.46.2.1.1	Transport channel parameters for Conversational / speech / DL:12.2 kbps / CS RAB
See clause 6.10.2.4.1.4	<u>-2.1.1.</u>
6.10.2.4.1.46.2.1.2	Transport channel parameters for Streaming / unknown / DL:64 kbps / CS RAB
See clause 6.10.2.4.1.1	<u>8.2.1.1.</u>
6.10.2.4.1.46.2.1.3	Transport channel parameters for DL:3.4 kbps SRBs for DCCH

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.46.2.1.4 TFCS

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

6.10.2.4.1.46.2.2 Physical channel parameters

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

6.10.2.4.1.47 Void

6.10.2.4.1.48 Void

<New section ends>

<New section starts>

6.10.2.4.1.54 Void. Interactive or background / UL:64 DL:128 kbps / PS RAB + Streaming / unknown / UL:0 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.1.54.1 Uplink

See clause 6.10.2.4.1.24.1.

6.10.2.4.1.54.2 Downlink

6.10.2.4.1.54.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.27.2.1.1.

6.10.2.4.1.54.2.1.2 Transport channel parameters for Streaming / unknown / DL:64 kbps / CS RAB

See clause 6.10.2.4.1.18.2.1.1.

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.1.54.2.1.4 TFCS

TFCS size	50
TFCS	(I/B 128 kbps RAB, Str. 64 kbps RAB, DCCH)=
	(TF0, TF0, TF0), (TF1, TF0, TF0), (TF2, TF0, TF0), (TF3, TF0, TF0), (TF4, TF0, TF0),
	(TF0, TF1, TF0), (TF1, TF1, TF0), (TF2, TF1, TF0), (TF3, TF1, TF0), (TF4, TF1, TF0),
	(TF0, TF2, TF0), (TF1, TF2, TF0), (TF2, TF2, TF0), (TF3, TF2, TF0), (TF4, TF2, TF0),
	(TF0, TF3, TF0), (TF1, TF3, TF0), (TF2, TF3, TF0), (TF3, TF3, TF0), (TF4, TF3, TF0),
	(TF0, TF4, TF0), (TF1, TF4, TF0), (TF2, TF4, TF0), (TF3, TF4, TF0), (TF4, TF4, TF0),
	(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF0, TF1), (TF3, TF0, TF1), (TF4, TF0, TF1),
	(TE0, TE1, TE1), (TE1, TE1, TE1), (TE2, TE1, TE1), (TE3, TE1, TE1), (TE4, TE1, TE1),
	(TF0, TF2, TF1), (TF1, TF2, TF1), (TF2, TF2, TF1), (TF3, TF2, TF1), (TF4, TF2, TF1),
	(TF0, TF3, TF1), (TF1, TF3, TF1), (TF2, TF3, TF1), (TF3, TF3, TF1), (TF4, TF3, TF1),
	(TF0, TF4, TF1), (TF1, TF4, TF1), (TF2, TF4, TF1), (TF3, TF4, TF1), (TF4, TF4, TF1)

6.10.2.4.1.54.2.4 Physical channel parameters

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

6.10.2.4.1.55 Void

<New section ends>

<New section starts>

6.10.2.4.2 Combinations on PDSCH and DPCH

6.10.2.4.2.1 Void. Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH

6.10.2.4.2.1.1 Uplink

See clause 6.10.2.4.1.24.1.

6.10.2.4.2.1.2 Downlink

6.10.2.4.2.1.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC MAC header, bit		18
	MAC multiplexing	Logical channel multiplexing on a frame by frame basis
Layer 1	TrCH type	DSCH
	TB sizes, bit	354
	TFS TF0, bits	0x354
	TF1, bits	1x354

Higher	RAB/Signalling RB	RAB
layer		
	TF2, bits	2x354
	TF3, bits	4 x35 4
	TF4, bits	8 x354
	TF5, bits	N/A (alt. 12x354)
	TF6, bits	N/A (alt. 16x354)
	TTI, ms	10(alt. 20)
	Coding type	Ŧ C
	CRC, bit	16
	Max number of bits/TTI after channel coding	8892(alt. 17784)
	RM attribute	135-175

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.1.2.1.3 TFCS

PDSCH	TFCS	5 (alt.7)
	sizo	
	TFCS	256 kbps RAB =TF0, TF1, TF2, TF3, TF4 (alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6)
DPCH	TFCS	2
Downlink	sizo	
associated	TECS	SRBs for DCCH = TF0, TF1
with		
PDSCH		

6.10.2.4.2.1.2.2 Physical channel parameters

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

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

6.10.2.4.2.2.1 Uplink

See clause 6.10.2.4.1.24.1.

- 6.10.2.4.2.2.2 Downlink
- 6.10.2.4.2.2.2.1 Transport channel parameters

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	320
	Max data rate, bps	384000
	AMD PDU header, bit	16
MAC	MAC header, bit	18
	MAC multiplexing	Logical channel multiplexing on a frame by frame basis
Layer 1	TrCH type	DSCH
	TB sizes, bit	354
	TFS TF0, bits	0x354
	TF1, bits	1x354
	TF2, bits	2x354
	TF3, bits	4 x354
	TF4, bits	8 x354
	TF5, bits	12 x354
	TF6, bits	N/A (alt. 16x354)
	TF7, bits	N/A (alt. 20x354)
	TF8, bits	N/A (alt. 24x354)
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	13332(alt. 26664)
	RM attribute	110-150

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.2.2.1.3 TFCS

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

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

6.10.2.4.2.2.2.2 Physical channel parameters

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

6.10.2.4.2.3.1 Uplink

See clause 6.10.2.4.1.24.1.

6.10.2.4.2.3.2 Downlink

6.10.2.4.2.3.2.1 Transport channel parameters

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

Higher	RAB/Signalling RB	RAB
layer		
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	640
	Max data rate, bps	2048000
	AMD PDU header, bit	16
MAC	MAC header, bit	18
	MAC multiplexing	Logical channel multiplexing on a frame by frame basis
Layer 1	TrCH type	DSCH
-	TB sizes, bit	674
	TFS TF0, bits	0x674
	TF1, bits	1x674
	TF2, bits	2x674
	TF3, bits	4 x674
	TF4, bits	8 x674
	TF5, bits	12x674
	TF6, bits	16x674
	TF7, bits	20x674
	TF8, bits	24x674
	TF9, bits	28x674
	TF10, bits	32x674
	TF11, bits	N/A (alt. 36x674)
	TF12, bits	N/A (alt. 40x674)
	TF13, bits	N/A (alt. 44x674)
	TF14, bits	N/A (alt. 48x674)
	TF15, bits	N/A (alt. 52x674)
	TF16, bits	N/A (alt. 56x674)
	TF17, bits	N/A (alt. 60x674)
	TF18, bits	N/A (alt. 64x674)

Higher layer	RAB/Signalling RB	RAB
	TTI, ms	10(alt. 20)
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	66300 (alt. 132588)
	RM attribute	130-170

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

See clause 6.10.2.4.1.2.2.1.1

6.10.2.4.2.3.2.1.3 TFCS

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

6.10.2.4.2.3.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 2048 kbps / PS RAB, DSCH
	DTX position		N/A (SingleTrCH)
	Minimum sp	preading factor	4
DPCH	RAB or SRE	3, TrCh	3.4 kbps SRB for DCCH, DCH
Downlink	DTX position		N/A (SingleTrCH)
associated	Spreading factor		256
with	DPCCH	Number of TFCI bits/slot	2
PDSCH		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	12
		Number of data bits/frame	180

6.10.2.4.2.4 <u>Void.</u> Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH

6.10.2.4.2.4.1 Uplink

See clause 6.10.2.4.1.40.1.

6.10.2.4.2.4.2 Downlink

6.10.2.4.2.4.2.1 Transport channel parameters

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

See clause 6.10.2.4.1.4.2.1.1

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

See clause 6.10.2.4.2.1.2.1.1

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

See clause 6.10.2.4.1.2.2.1.1.

6.10.2.4.2.4.2.1.4 TFCS

PDSCH	TFCS	5 (alt.7)
	sizo	
	TECS	256 kbps RAB = TF0, TF1, TF2, TF3, TF4
		(alt. TF0, TF1, TF2, TF3, TF4, TF5, TF6)
DPCH	TFCS	6
Downlink	sizo	
associated	TECS	(RAB subflow#1, RAB subflow#2, RAB subflow#3, DCCH) =
with		(TF0, TF0, TF0, TF0), (TF1, TF0, TF0, TF0), (TF2, TF1, TF1, TF0),
PDSCH		(TF0, TF0, TF1), (TF1, TF0, TF1), (TF2, TF1, TF1, TF1)

6.10.2.4.2.4.2.4 Physical channel parameters

PDSCH	RAB or SRB, TrCh		Interactive or background / 256 kbps / PS RAB, DSCH
	DTX position		N/A (SingleTrCH)
	Minimum spreading factor		4
DPCH	RAB or SRB, TrCh		Conversational / speech / 12.2 kbps / CS RAB, DCH
Downlink			+ 3.4 kbps SRBs for DCCH. DCH
associated with PDSCH	DTX position		Fixed
	Spreading factor		128
	DPCCH	Number of TFCI bits/slot	2
		Number of TPC bits/slot	2
		Number of Pilot bits/slot	4
	DPDCH	Number of data bits/slot	32
		Number of data bits/frame	4 80

<New section ends>

1

3GPP TSG-T1 Meeting #18 San Antonio, USA, 10 th -14 th Feb 2003		T1-030039
3GPP TSG-T1/SIG San Antonio, USA	Meeting #27 , 10 th -14 th Feb 2003	T1S030189
	CHANGE REQUE	CR-Form-v6.1
	4.108 CR 174 # rev - Title: User Equipment (UE) conformance Part 1: Protocol conformance spec	
Proposed change affe		o Access Network Core Network
	R to TS34.108 R99 Combine all Radio Beard Panasonic, Ericsson El	er Setup messages into one table Date: # 21/1/03
De	 a <u>one</u> of the following categories: <i>F</i> (correction) <i>A</i> (corresponds to a correction in an earlier registration of feature), <i>C</i> (functional modification of feature) <i>D</i> (editorial modification) atailed explanations of the above categories can found in 3GPP <u>TR 21.900</u>. 	Release: %R99Use one 2of the following releases: 22(GSM Phase 2)elease)R96R97(Release 1996)R97(Release 1997)R98(Release 1998)R99(Release 1999)REL-4(Release 4)REL-5(Release 5)
Reason for change:	It will be more convenient if these 2. Editorial. For CS speech RAB, T3 3. Editorial. RLC size and TFCS con	nfiguration in RRC CONNECTION CELL_FACH state currently referred to combination table. RER SETUP message should be

Frequency Info IE normally shall be set to "Not Present" when the same frequency is applied after this reconfiguration.

Missing CHOICE Logical Channel list IEs are added.

Summary of change: ೫	1. All RADIO BEARER SETUP messages are merged in a single table.
	The re-establishment timer for CS speech RAB in RADIO BEARER SETUP message is set to useT314.
	 The reference for the RLC size and TFCS configuration in RRC CONNECTION SETUP message for transition to CELL_FACH state have been correct to clause 6.10.2.4.4.1.

	 In all RADIO BEARER SETUP message, the frequency info shall be referred to clause 5.1 in TS 34.108 instead of "Not present".
	Revision to T1S030028
	Frequency Info IE shall be set to "Not Present" when the same frequency is applied.
	Missing CHOICE Logical Channel list IEs are added.
Consequences if not approved:	# Wrong test condition may result in incorrect test results.
Clauses affected:	ж

Other specs affected:	# Other core specifications # Test specifications O&M Specifications
Other comments:	# Affects Rel-99

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: <u>http://www.3gpp.org/3G_Specs/CRs.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

3

<Start of Modification>

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

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	The presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If integrity protection is indicated to be
	active, this IE is present with the values of the sub IEs as
	stated below. Else, this IE and the sub-IEs are omitted.
 message authentication code 	SS calculates the value of MAC-I for this message and
	writes to this IE.
 – RRC message sequence number 	SS provides the value of this IE, from its internal counter.
Integrity protection mode info	Not Present
Ciphering mode info	Not Present.
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup list	Not Present
RAB information for setup list	
- RAB information for setup	
	0000 0001B
	CS domain
	Not Present
	UseT314
RB information to setup	
	10
	Not Present
	RLC info
	TMRLC
- Transmission RLC discard	Not Present
	FALSE
	TMRLC
	FALSE
- Information for each multiplexing option	Not Present
	Not Present
	4 DCH
1 1 21	
	4 Not Present
	Configured
	6
	1
	4 DCH
	⊖ Not Present
	Not Present
	11
	Not Present
	RLC info
	TM RLC
	Not Present
- Transmission RLC discard	FALSE
	TMRLC
	FALSE
	THEE
	Net Present
	Not Present 4
	+ DCH
	2

Information Element	Value/remark
- Logical channel identity	Not Present
	Configured
- MAC logical channel priority	6
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	4
- Downlink transport channel type	DCH
	7
	Not Present
	Not Present
	12
	Not Present
	RLC info
	TMRLC
	Not Present
	FALSE
	TM RLC FALSE
	FALSE
- 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
	Configured
- MAC logical channel priority	6
	4
	DCH
	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 	Not Present
	EDD
	Not Present
	Normal
	Complete reconfiguration
- TFCS complete reconfigure information	
	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
	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 above is set to Computed Gain
Coinfector 0 d	Factors) 15
	(Not Present if the above is set to Computed Gain
	Factors)
- Reference TFC ID	$\frac{1}{9}$
	FDD
	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	3 DCHs added, 1 DCH reconfigured
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
	4

Information Element	Value/remark
	Dedicated transport channels
Dynamic Transport format information	
- RLC Size	Reference to TS34.108 clause 6.10 Parameter Set
	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
	All
Semi-static Transport Format information	
	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	
	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
	Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set
	(This IE is repeated for TFI number.)
	All
- Semi-static Transport Format information	
	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type	DCH
UL Transport channel identity	3
- TFS	
CHOICE Transport channel type	Dedicated transport channels
Dynamic Transport format information	
- RI C Size	Reference to TS34,108 clause 6,10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
	Reference to TS34.108 clause 6.10 Parameter Set
	Reference to TS34.108 clause 6.10 Parameter Set
- Transmission Time Interval	
 Number of Transport blocks 	(This IE is repeated for TFI number.)
- CHOICE Logical Channel list	All
 Semi-static Transport Format information 	
	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate	Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute	Reference to TS34.108 clause 6.10 Parameter Set
CRC size	Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type	DCH
- UL Transport channel identity	5
TFS	
CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
	Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
	Reference to TS34.108 clause 6.10 Parameter Set
	Reference to TS34.108 clause 6.10 Parameter Set
 Number of Transport blocks 	(This IE is repeated for TFI number.)
	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	
Type of channel coding	
 Type of channel coding Coding Rate Rate matching attribute 	Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Information Element	Value/remark
CHOICE mode	FDD
	Not Present
	Not Present
list	
DL Transport channel information common for all	
transport channel	Net Descent
	Not Present
	FDD Same as UL
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	3 DCHs
Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
	6
	Same as UL
- Uplink transport channel type	DCH
	4
	-2.0
	DCH
	7
	Same as UL
 Uplink transport channel type 	DCH
	2
	Not Present
	DCH
	8 Same as UL
	DCH
	3
	•
- BLER Quality value	Not Present
- Downlink transport channel type	DCH
- DL Transport channel identity	10
	Same as UL
	DCH
	5
	-2.0
Frequency info	Not Present
Maximum allowed UL TX power	33dBm
-CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
	- 6dB 1-frame
	7 frames
	Algorithm1
TPC step size	1dB
	Long
- Scrambling code number	0 (0 to 16777215)
	Not Present(1)
- spreading factor	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
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
	••• • • •
	Maintain
	Not Present
Downlink DPCH power control information	
	0 (single) EDD
	₩ Not Present
- DE Hale maloning restriction monation	

Information Element	Value/remark	
	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	
- DPCH compressed mode info	Not Present	
- TX Diversity mode	None	
	Not Present	
- Default DPCH Offset Value	Not Present	
Downlink information for each radio link list		
- Downlink information for each radio link		
	FDD	
- Primary scrambling code	Reference to clause 6.1 "Default settings (FDD)"	
	Not Present	
	Not Present	
	Primary CPICH may be used	
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently	
	stored in SS) mod 38400	
	Not Present	
- DL channelisation code		
	4	
	Reference to TS34.108 clause 6.10 Parameter Set	
	θ	
	No change	
	θ	
	Not Present	
	Not Present	
	Not Present	

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

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	The presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If integrity protection is indicated to be
	active, this IE is present with the values of the sub IEs as
	stated below. Else, this IE and the sub-IEs are omitted.
 message authentication code 	SS calculates the value of MAC-I for this message and
550	writes to this IE.
	SS provides the value of this IE, from its internal counter.
Ciphering mode info	Not Present
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
New DSCH-RNTI	Not Present
RRC State indicator	CELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
URA identity	Not Present
Signalling RB information to setup	Not Present
RAB information for setup	
	0000 01010
	0000 0101B
	PS domain Not Present
- RAS Synchronization Indicator	UseT315
- RB information to setup	
	20
	20
- Support for lossless SRNS relocation	FALSE
	Not present
- PDCP PDU header	Absent
- Header compression information	Not present
	RLC info
	AM RLC
	No discard
	15
	128 500
	4
	4
	200
	200
	Not Present
	4
- Last transmission PDU poll	TRUE
	TRUE
	99
	Not Present
	AM RLC
	TRUE
	128
	200
	Not Present
	TRUE
- Timer STATUS periodic	Not Present
RB mapping info	
 Information for each multiplexing option 	2 RBMuxOptions
	Not Present
	4
	DCH
	4
	Not Present

Information Element	Value/remark
	Configured
	8
	1
- DCWININK transport channel identity	
- DL DCH Hansport channel identity	Not Present
- DE DSCH Hansport channel identity	Not Present
	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
	Not Present
	Z
	Explicit List
	Reference to TS34.108 clause 6 Parameter Set
- MAC logical channel priority	
	•
- Number of downlink RLC logical channels	4
- Downlink transport channel type	FACH
	Not Present
- DL DCH transport channel identity	Not Present
	7
	+ Not Present
	Not Present
Downlink counter synchronisation info UL Transport channel information for all transport	
Channels	
	Not Present
	Not Present
	Normal
	Normal
	Complete reconfiguration
	Complete reconfiguration
- CHOICE CTFC Size	
- CTFC information	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
	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 above is set to Computed Gain
	Factors)
	15
	(Not Present if the above is set to Computed Gain
	Factors)
- Reference TFC ID	
	FDD
	Not Present
Deleted TrCH information list	Not Present
Added or Reconfigured TrCH information list	1 DCH added, 1 DCH reconfigured
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	4
	Dedicated transport channels
- Dynamic Transport format information	
	Reference to TS34.108 clause 6.10 Parameter Set
	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
CHOICE Logical Channel list	All
- Semi-static Transport Format information	
- Transmission time interval	Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding	Reference to TS34.108 clause 6.10 Parameter Set
A per et etternet eesting	

Information Element	Value/remark
	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
- Uplink transport channel type	DCH
- UL Transport channel identity	5
TFS	
	Dedicated transport channels
- Dynamic Transport format information	
	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
- Semi-static Transport Format information	A
	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	FDD
	Not Present
- Added or Reconfigured TrCH information for	Not Present
DRAC list	
DL Transport channel information common for all	
transport channel	
	Not Present
	FDD
	Explicit
	Normal
	Complete reconfiguration
	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
	Not present
	NOT Present
Added or Reconfigured TrCH information list	
	DCH
	6
	S Explicit
	Dedicated transport channels
	Reference to TS34.108 clause 6.10 Parameter Set
	(This IE is repeated for TFI number.)
- Transmission Time Interval	Not Present
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- Semi-static Transport Format information	
	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
	DCH
	10
	Same as UL
	Same as OF
	DCH

Information Element	Value/remark	
	-2.0	
Frequency info	Not Present	
Maximum allowed UL TX power	33dBm	
-CHOICE channel requirement	Uplink DPCH info	
- Uplink DPCH power control info		
DPCCH power offset	-6dB	
	1 frame	
SRB delay	7 frames	
	Algorithm1	
- TPC step size	1dB	
	Long	
 Scrambling code number 	0 (0 to 16777215)	
	Not Present(1)	
	Reference to TS34.108 clause 6.10 Parameter Set	
- TFCI existence	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		
	Not Present	
Downlink information common for all radio links	not resent	
- Downlink Information common for all RL		
	Maintain	
- CFN-targetSFN frame offset	Not Present	
 Downlink DPCH power control information 		
	0 (single)	
	EDD	
	θ	
 DL rate matching restriction information 	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	
	Not Present	
- TX Diversity mode	None	
	Not Present	
	Not Present	
	NOT Present	
Downlink information for each radio link list		
Downlink information for each radio link		
	FDD	
	Reference to clause 6.1 "Default settings (FDD)"	
	Not Present	
	Not Present	
- Downlink DPCH info for each RL		
- Primary CPICH usage for channel estimation	Primary CPICH may be used	
	Set to value Default DPCH Offset Value (as currently	
	stored in SS) mod 38400	
	Not Present	
	+ Deference to TOOA 400 also = 0.40 D	
	Reference to TS34.108 clause 6.10 Parameter Set	
	θ	
 Scrambling code change 	No change	
	θ	
	Not Present	
 Closed loop timing adjustment mode 	Not Present	
	Not Present	

13

Contents of RADIO BEARER SETUP message: AM or UM

Information Element	Condition	Value/remark
Message Type	A1, <u>A2, A3,</u>	
	A4, A5, A6,	
	A7, A8	
RRC transaction identifier		Arbitrarily selects an integer between 0 and 3
Integrity check info		The presence of this IE is dependent on IXIT
		statements in TS 34.123-2. If integrity
		protection is indicated to be active, this IE is
		present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are
		omitted.
- message authentication code		SS calculates the value of MAC-I for this
		message and writes to this IE.
- RRC message sequence number		SS provides the value of this IE, from its
		internal counter.
Integrity protection mode info		Not Present
Ciphering mode info		Not Present
Activation time	A1, <u>A2, A3,</u>	(256+CFN-(CFN MOD 8 + 8))MOD 256
	A7, A8	Net Decent
Activation time	A4, A5, A6	Not Present
New U-RNTI	<u>A1, A2, A3,</u> A4, A5, A6,	Not Present
	<u>A4, A5, A6,</u> A7, A8	
New C-RNTI	A1, <u>A2, A3,</u>	Not Present
	A4, A7, A8	Not i resent
New C-RNTI	A5, A6	'1010 1010 1010 1010'
New DSCH-RNTI	A1, <u>A2, A3,</u>	Not Present
	A4, A5, A6,	
	A7, A8	
RRC State indicator	A1, <u>A2, A3,</u>	CELL_DCH
	A4,_A7,_A8	
RRC State indicator	A5, A6	CELL_FACH
UTRAN DRX cycle length coefficient	A1, <u>A2, A3,</u>	Not Present
	A4, A5, A6,	
CN information info	A7,_A8	Not Present
URA identity		Not Present
Signalling RB information to setup		Not Present
RAB information for setup	A1,_A7	
- RAB info	,	
- RAB identity		0000 0001B
- CN domain identity		CS domain
 NAS Synchronization Indicator 		Not Present
- Re-establishment timer		useT314
- RB information to setup		10
- RB identity - PDCP info		10 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		
 Uplink transport channel type UL Transport channel identity 		DCH 1
- OL Transport channel identity		Not Present
- CHOICE RLC size list		Configured
- MAC logical channel priority		7
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels		1
- Downlink transport channel type	1	DCH

Information Element	Condition	Value/remark
- DL DCH Transport channel identity		6
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
RAB information for setup	<u>A2,</u> A8	
- RAB info		
- RAB identity		0000 0001B
- CN domain identity		CS domain
- NAS Synchronization Indicator		Not Present
- Re-establishment timer		useT315useT314
- 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		Net Descent
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		•
 Uplink transport channel type UL Transport channel identity 		DCH 1
- Logical channel identity		
- CHOICE RLC size list		Not Present
- MAC logical channel priority		Configured 6
- Downlink RLC logical channel info		0
- Number of downlink RLC logical channels		1
- Downlink transport channel type		DCH
- DL DCH Transport channel identity		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		TMRLC
- Segmentation indication		FALSE
- RB mapping info		
- Information for each multiplexing option		
- RLC logical channel mapping indicator		Not Present
- Number of uplink RLC logical channels		1
- Uplink transport channel type		DCH
- UL Transport channel identity		2
- Logical channel identity		Not Present
- CHOICE RLC size list		Configured
 MAC logical channel priority 		6
- Downlink RLC logical channel info		
- Number of downlink RLC logical channels		1
- Downlink transport channel type		DCH
- DL DCH Transport channel identity		
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		Not Present
- RB identity		12 Nat December
- PDCP info		Not Present
- CHOICE RLC info type		RLC info
- CHOICE Uplink RLC mode		TM RLC
- Transmission RLC discard		Not Present
- Segmentation indication		FALSE
- CHOICE Downlink RLC mode		TM RLC
- Segmentation indication		FALSE
- RB mapping info		
- Information for each multiplexing option		Not Droppet
 RLC logical channel mapping indicator 		Not Present

Information Element Condition - Number of uplink RLC logical channels - Uplink transport channel type - UL Transport channel identity - Logical channel identity - Logical 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 identity - DL DCH Transport channel identity - DL DSCH Transport channel identity - Logical channel identity - Logical channel identity - Logical channel identity - Logical channel identity - RAB info - RAB info - RAB identity - CN domain 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 SDU discard mode - Transmission RLC discard - CHOICE SDU discard mode	on Value/remark 1 DCH 3 Not Present Configured 6 1 DCH 8 Not Present Not Present Not Present Not Present Not Present Not Present 0000 0101B
 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 channelss Downlink transport channel type DL DCH Transport channel identity LD DSCH Transport channel identity Logical channel identity Logical channel identity Cold Channel identity Logical channel identity Logical channel identity Logical channel identity Logical channel identity Cold Channel identity CN domain 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 	3 Not Present Configured 6 1 DCH 8 Not Present Not Present Not Present Not Present
 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 iype DL DCH Transport channel identity DL DSCH Transport channel identity Logical channel identity Logical channel identity CN domain for setup RAB infor RAB infor RAB information for setup A3_A4, A A6 A6 A3_A4, A A6 A3_A4, A A6 A7 A6 A7	3 Not Present Configured 6 1 DCH 8 Not Present Not Present Not Present Not Present
 Logical channel identity CHOICE RLC size list MAC logical channel priority Downlink RLC logical channel info Number of downlink RLC logical channels Downlink transport channel type DL DCH Transport channel identity DL DSCH Transport channel identity Logical channel identity Logical channel identity RAB information for setup 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 SDU discard mode MAX_DAT 	Not Present Configured 6 1 DCH 8 Not Present Not Present Not Present Not Present
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 Logical channel identity 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 SDU discard mode MAX_DAT	Configured 6 1 DCH 8 Not Present Not Present Not Present Not Present (AM DTCH for PS domain)
 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 RAB information for setup RAB identity CN domain identity NAS Synchronization Indicator Re-establishment timer 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 SDU discard mode MAX_DAT 	6 1 DCH 8 Not Present Not Present Not Present (AM DTCH for PS domain)
 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 RAB information for setup RAB info RAB identity CN domain identity NAS Synchronization Indicator Re-establishment timer 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 SDU discard mode MAX_DAT 	1 DCH 8 Not Present Not Present N5, (AM DTCH for PS domain)
 Number of downlink RLC logical channels Downlink transport channel type DL DCH Transport channel identity DL DSCH Transport channel identity Logical channel identity RAB information for setup RAB info RAB identity CN domain identity NAS Synchronization Indicator Re-establishment timer 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 SDU discard mode MAX_DAT 	DCH 8 Not Present Not Present N5, (AM DTCH for PS domain)
 Downlink transport channel type DL DCH Transport channel identity DL DSCH Transport channel identity Logical channel identity RAB information for setup RAB info RAB identity CN domain identity NAS Synchronization Indicator Re-establishment timer 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 SDU discard mode MAX_DAT 	8 Not Present Not Present A5, (AM DTCH for PS domain)
 DL DCH Transport channel identity DL DSCH Transport channel identity Logical channel identity RAB information for setup RAB info RAB identity CN domain identity NAS Synchronization Indicator Re-establishment timer 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 	8 Not Present Not Present A5, (AM DTCH for PS domain)
 DL DSCH Transport channel identity Logical channel identity 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 	Not Present (AM DTCH for PS domain)
- Logical channel identity RAB information for setup - RAB info - RAB identity - CN domain identity - NAS Synchronization Indicator - Re-establishment timer - RB identity - RB 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	(AM DTCH for PS domain)
A6 - 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	(AM DTCH for PS domain)
 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 	
 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 	
 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 	0000 0101B
 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 	
 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 	PS domain
 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 	Not Present
 - 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 	useT315
 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 	
 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 	20
 Max PDCP SN window size PDCP PDU header Header compression information CHOICE RLC info type CHOICE Uplink RLC mode Transmission RLC discard CHOICE SDU discard mode MAX_DAT 	
 PDCP PDU header Header compression information CHOICE RLC info type CHOICE Uplink RLC mode Transmission RLC discard CHOICE SDU discard mode MAX_DAT 	FALSE
 Header compression information CHOICE RLC info type CHOICE Uplink RLC mode Transmission RLC discard CHOICE SDU discard mode MAX_DAT 	Not present
- CHOICE RLC info type - CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT	Absent
- CHOICE Uplink RLC mode - Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT	Not present
- Transmission RLC discard - CHOICE SDU discard mode - MAX_DAT	RLC info
- CHOICE SDU discard mode - MAX_DAT	AM RLC
- MAX_DAT	
—	No Discard
- I ransmission window size	15
	128
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	
- Last transmission PDU poll	TRUE TRUE
- Last retransmission PDU poll - Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- Logical channel identity	Not Present
- CHOICE RLC size list	Configured
- MAC logical channel priority	8
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	
- DL DCH Transport channel identity	
- DL DSCH Transport channel identity	DCH 6
- Logical channel identity	
- RLC logical channel mapping indicator	6

Information Element	Condition	Value/remark
- Number of uplink RLC logical channels	1	1
- Uplink transport channel type		RACH
- UL Transport channel identity		Not Present
- Logical channel identity	1	7
- CHOICE RLC size list	1	Explicit list
- RLC size index		Reference to TS34.108 clause 6 Parameter
		Set
- MAC logical channel priority		8
- Downlink RLC logical channel info		°
- Number of downlink RLC logical channels		1
- Downlink transport channel type		FACH
- DL DCH Transport channel identity		Not Present
- DL DSCH Transport channel identity		Not Present
- Logical channel identity		7
RB information to be affected	A1, <u>A2, A3,</u>	Not Present
	A4, A5, A6,	Norriesent
	A7,_A8	
Downlink counter synchronisation info	A1, <u>A2, A3,</u>	Not Present
Downlink counter synchronisation into		NOLFIESEIIL
	A4, A5, A6, A7, A8	
III. Transport abapted information for all transport		
UL Transport channel information for all transport channels	A1 <u>, A2, A3,</u>	
channels	A4,_A5,_A6,	
	A7,_A8	Net Dresent
- PRACH TFCS		Not Present
- CHOICE mode		FDD
- TFC subset		Not Present
- UL DCH TFCS		
- CHOICE TFCI signalling		Normal
- TFCI Field 1 information		
- CHOICE TFCS representation		Complete reconfiguration
 TFCS complete reconfigure information 		
- CHOICE CTFC Size		Number of bits used must be enough to cover
		all combinations of CTFC from TS34.108
		clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
		Parameter Set
- CTFC		Reference to TS34.108 clause 6.10.2.4
		Parameter Set
 Power offset information 		
- CHOICE Gain Factors		Computed Gain Factors(The last TFC is set to
		Signalled Gain Factors)
- Gain factor β c		11 (below 64 kbps)
		9 (higher than 64 kbps) (Not Present if the
	1	CHOICE Gain Factors is set to Computed
	1	Gain Factors)
- Gain factor β d		15
	1	(Not Present if the CHOICE Gain Factors is set
		to Computed Gain Factors)
- Reference TFC ID	1	0
- CHOICE mode	1	FDD
- Power offset P p-m		Not Present
Deleted UL TrCH information	A1, <u>A2, A3,</u>	Not Present
	A4, A5, A6,	
	A7,_A8	
Added or Reconfigured UL TrCH information	A1, <u>A3 A4,</u>	1 DCH added, 1 DCH reconfigured
	A5, A6, A7	
- Uplink transport channel type	<u>7,0,70,71</u>	DCH
- UL Transport channel identity		1
- OL Transport channel identity - TFS	1	'
-		Dedicated transport channels
- CHOICE Transport channel type	1	Dedicated transport channels
- Dynamic Transport format information	1	Peteropoe to TS24.400 cloures 0.40 Devery star
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
- Number of TBs and TTI List	1	Set
	1	(This IE is repeated for TFI number.)
		Net Dresent
- Transmission Time Interval - Number of Transport blocks		Not Present Reference to TS34.108 clause 6.10 Parameter

Information Element	Condition	Value/remark
		Set
- CHOICE Logical Channel list		All
 Semi-static Transport Format information Transmission time interval 		Reference to TS34.108 clause 6.10 Parameter
		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type		DCH
- UL Transport channel identity		5
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
 Dynamic Transport format information RLC Size 		Reference to TS34.108 clause 6.10 Parameter
- REC SIZE		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
- CHOICE Logical Channel list		Set All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
Added or Reconfigured UL TrCH information	A4,A5,A6, A7	2 TrCHs(DCH for DCCH and DCH for DTCH)
- Uplink transport channel type		DCH
		5
		Dedicated transport channels
		Doubaiou transport onamilio
		Reference to TS34.108 clause 6.10 Parameter Set
		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
		Reference to TS34.108 clause 6.10 Parameter
		Set 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
		Reference to TS34.108 clause 6.10 Parameter
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- Uplink transport channel type		DCH
		4
		Dedicated transport channels
—————————————————————————————————		Reference to TS24 108 clause 6 10 Recomptor
		Reference to TS34.108 clause 6.10 Parameter

Information Element	Condition	Value/remark
		Set
		(This IE is repeated for TFI number.) Not Present
		Reference to TS34.108 clause 6.10 Parameter
		All
		Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter
		Set Reference to TS34.108 clause 6.10 Parameter
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter
		Set Reference to TS34.108 clause 6.10 Parameter
		Set
Added or Reconfigured UL TrCH information	<u>A2,</u> A8	4 TrCHs(DCH for DCCH and 3DCHs for DTCH)
- Uplink transport channel type		DCH
- UL Transport channel identity		5
- TFS		Dedicated transport channels
 CHOICE Transport channel type Dynamic Transport format information 		Dedicated transport channels
- RLC Size		Reference to TS34.108 clause 6.10 Parameter 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 - UL Transport channel identity		DCH 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 Number of Transport blocks 		Not Present Reference to TS34.108 clause 6.10 Parameter
- CHOICE Logical Channel list		Set All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
- CRC size		Set Reference to TS34.108 clause 6.10 Parameter Set
 Uplink transport channel type UL Transport channel identity 		DCH 2

Information Element	Condition	Value/remark
- TFS		
- CHOICE Transport channel type		Dedicated transport channels
 Dynamic Transport format information RLC Size 		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present Reference to TS34.108 clause 6.10 Parameter
- Number of Transport blocks		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 - TFS		3
- CHOICE Transport channel type		Dedicated transport channels
- Dynamic Transport format information		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list		All
 Semi-static Transport Format information 		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
Coding Data		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
CHOICE mode	A1, <u>A2, A3,</u> A4, A5, A6,	FDD
- CPCH set ID	A7,_A8	Not Present
- Added or Reconfigured TrCH		Not Present
information for DRAC list		
DL Transport channel information common for all	A1 <u>, A2,</u> A7,	
transport channel	A8	
- SCCPCH TFCS		Not Present
- CHOICE mode - CHOICE DL parameters		FDD SameasUL
DL Transport channel information common for all	<u>A3,</u> A4,_A5,	
transport channel	A6	Not Descent
- SCCPCH TFCS - CHOICE mode		Not Present FDD
- CHOICE DL parameters		Explicit
- DL DCH TFCS		
- CHOICE TFCI Signalling - TFCI Field 1 Information		Normal
- CHOICE TFCS representation		Complete reconfiguration
- TFCS complete reconfigure		
- CHOICE CTFC Size		Number of bits used must be enough to cover

Information Element	Condition	Value/remark
		all combinations of CTFC from clause
		TS34.108 clause 6.10.2.4 Parameter Set.
- CTFC information		This IE is repeated for TFC numbers and
		reference to TS34.108 clause 6.10.2.4
- CTFC		Reference to TS34.108 clause 6.10.2.4
		Parameter Set
- Power offset information		Not Present
Deleted DL TrCH information	A1, <u>A2, A3,</u>	Not Present
	A4, A5, A6,	
	A7,_A8	
Added or Reconfigured DL TrCH information	A1	1 DCH added, 1 DCH reconfigured
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		1
- DCH quality target		
- BLER Quality value		-2.0
- 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
Added or Reconfigured DL TrCH information	<u>A3,</u> A4,_A5,	2 TrCHs(DCH for DCCH and DCH for DTCH)
	A6,_A7	
 Downlink transport channel type 		DCH
- DL Transport channel identity		10
- CHOICE DL parameters		Same as UL
- Uplink transport channel type		DCH
- UL TrCH identity		5
- DCH quality target		
- BLER Quality value		-2.0
- Downlink transport channel type		DCH
- DL Transport channel identity		
- CHOICE DL parameters		Explicit
- TFS		Dedicated transport channel
- CHOICE Transport channel type		Dedicated transport channel
- Dynamic transport format information		Deference to TS24.409 clouise 6.40 Decemptor
- RLC Size		Reference to TS34.108 clause 6.10 Parameter Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- DCH quality target		
- BLER Quality value		-2.0
Added or Reconfigured DL TrCH information	<u>A2,</u> A8	4 TrCHs(DCH for DCCH and 3DCHs for
		DTCH)
- Downlink transport channel type		DCH
 DL Transport channel identity CHOICE DL parameters 		10 Some co III
- UHUIUE UI Darameters	1	Same as UL
- Uplink transport channel type		DCH

Information Element	Condition	Value/remark
- UL TrCH identity		5
- DCH quality target		•
- BLER Quality value		-2.0 Not Present
- Downlink transport channel type		DCH
- DL Transport channel identity		6
- CHOICE DL parameters		Explicit
- TFS		Explicit
- CHOICE Transport channel type		Dedicated transport channel
- Dynamic transport format information		Dedicated transport endinier
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		(This is repeated for TFT humber.)
- 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		All
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
		Set
Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set
Coding Poto		Set Reference to TS34.108 clause 6.10 Parameter
- Coding Rate		
Determeteling etteilente		Set
- Rate matching attribute		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
- DCH quality target		
- BLER Quality value		Not Present-2.0
- Downlink transport channel type		DCH
- DL Transport channel identity		7
- CHOICE DL parameters		Explicit
- TFS		
- CHOICE Transport channel type		Dedicated transport channel
 Dynamic transport format information 		
- RLC Size		Reference to TS34.108 clause 6.10 Parameter
		Set
- Number of TBs and TTI List		(This IE is repeated for TFI number.)
- Dynamic transport format information		
- Transmission Time Interval		Not Present
 Number of Transport blocks 		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE Logical Channel list		All
- Semi-static Transport Format information		
- Transmission time interval		Reference to TS34.108 clause 6.10 Parameter
· · · · ·		Set
- Type of channel coding		Reference to TS34.108 clause 6.10 Parameter
		Set
- Coding Rate		Reference to TS34.108 clause 6.10 Parameter
		Set
 Rate matching attribute 		Reference to TS34.108 clause 6.10 Parameter
		Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter
		Set
 DCH quality target 		
- BLER Quality value		Not Present
- Downlink transport channel type		DCH
- DL Transport channel identity		8
- CHOICE DL parameters		Explicit
- TFS		
- CHOICE Transport channel type		Dedicated transport channel
- Dynamic transport format information		
- 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		. , , , , , , , , , , , , , , , , , , ,

Information Element	Condition	Value/remark
- Transmission Time Interval		Not Present
- Number of Transport blocks		Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical Channel list		
 Semi-static Transport Format information Transmission time interval 		Reference to TS34.108 clause 6.10 Parameter
- Type of channel coding		Set Reference to TS34.108 clause 6.10 Parameter
- Coding Rate		Set Reference to TS34.108 clause 6.10 Parameter
- Rate matching attribute		Set Reference to TS34.108 clause 6.10 Parameter Set
- CRC size		Reference to TS34.108 clause 6.10 Parameter Set
- DCH quality target - BLER Quality value		Not Present
Frequency info	A2, A3	Not present
Frequency info		
Frequency into	A1, <u>A2, A3,</u> A4, A5, A6, A7, A8	
- UARFCN uplink (Nu)		Reference to clause 5.1 Test frequencies <u>if</u> frequency is different from the current
		frequency otherwise set to Not Present.
- UARFCN downlink (Nd)		Reference to clause 5.1 Test frequencies if
		frequency is different from the current frequency otherwise set to Not Present.
Maximum allowed UL TX power	A1, <u>A2, A3,</u> A4, A7, A8	33dBm
Maximum allowed UL TX power	A5, A6	Not Present
CHOICE channel requirement	A1, <u>A2, A3,</u>	Uplink DPCH info
	A4, A7, A8	
- Uplink DPCH power control info	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
- DPCCH power offset		-6dB
- PC Preamble		1 frame
- SRB delay		7 frames
- Power Control Algorithm		Algorithm1
- TPC step size		1dB
- Scrambling code type		Long
- Scrambling code number		0 (0 to 16777215)
- Number of DPDCH		Not Present(1)
- spreading factor		Reference to TS34.108 clause 6.10 Parameter
		Set
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter Set
- Number of FBI bit		Reference to TS34.108 clause 6.10 Parameter Set
- Puncturing Limit		Reference to TS34.108 clause 6.10 Parameter Set
CHOICE channel requirement	A5,A6	Not Present
CHOICE Mode	A1, <u>A2, A3,</u>	FDD
	A4, A5, A6,	
	A7,_A8	
- Downlink PDSCH information		Not Present
Downlink information common for all radio links	A1 <u>, A2, A3</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		FDD
- Power offset P _{Pilot-DPDCH}		0
- DL rate matching restriction information		Not Present
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
- Fixed or Flexible Position		Set Reference to TS34.108 clause 6.10 Parameter
		Set

Information Element	Condition	Value/remark
- TFCI existence		Reference to TS34.108 clause 6.10 Parameter
	1	Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
	1	Set
- CHOICE mode	1	FDD
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value		Not Present
Downlink information common for all radio links	A4,A7,A8	
 Downlink DPCH info common for all RL 		
- Timing indicator		Initialise
 CFN-targetSFN frame offset 		Not Present
 Downlink DPCH power control information 		
- DPC mode		0 (single)
- CHOICE mode		FDD
- Power offset P _{Pilot-DPDCH}		0
- DL rate matching restriction information		Not Present
- Spreading factor	1	Reference to TS34.108 clause 6.10 Parameter
Event on Electric Destition	1	Set
- Fixed or Flexible Position	1	Reference to TS34.108 clause 6.10 Parameter
TECLovictorica	1	Set Reference to TS34 108 clause 6 10 Parameter
- TFCI existence	1	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE SF		Reference to TS34.108 clause 6.10 Parameter
		Set
- CHOICE mode		FDD
- DPCH compressed mode info		Not Present
- TX Diversity mode		None
- SSDT information		Not Present
- Default DPCH Offset Value		Arbitrary set to value 0306688 by step of 512
Downlink information common for all radio links	A5,A6	Not Present
Downlink information for each radio link list	A1, A2, A3,	
	A4, A7, A8	
- Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
 PDSCH with SHO DCH info 		Not Present
 PDSCH code mapping 		Not Present
 Downlink DPCH info for each RL 		
 Primary CPICH usage for channel estimation 		Primary CPICH may be used
- DPCH frame offset		Set to value Default DPCH Offset Value (as
	1	currently stored in SS) mod 38400
	1	
- Secondary CPICH info	1	Not Present
- DL channelisation code		4
- Secondary scrambling code	1	1 Deference to TS24 109 clouce 6 10 Decemeter
- Spreading factor		Reference to TS34.108 clause 6.10 Parameter
Codo numbor	1	Set
- Code number - Scrambling code change	1	0 No chango
- Scrambling code change - TPC combination index	1	No change 0
- SSDT Cell Identity	1	Not Present
- Closed loop timing adjustment mode		Not Present
- SCCPCH information for FACH	1	Not Present
Downlink information for each radio link list	A4,A7,A8	
- Downlink information for each radio link		
	1	FDD
	1	
- Primary CPICH info		Def. to the Default actting in TC24 409 aloung
— Primary CPICH info — Primary scrambling code		Ref. to the Delauti Setting in 1834, the clause
Primary CPICH info Primary scrambling code		Ref. to the Default setting in TS34.108 clause 6.1 (FDD)
		6.1 (FDD)
		6.1 (FDD) Not Present
		6.1 (FDD) Not Present

Information Element	Condition	Value/remark
		Set to value : Default DPCH Offset Value mod
		38400
		Not Present
 Secondary scrambling code 		4
		Reference to TS34.108 clause 6.10 Parameter
		Set
		θ
		No change
- TPC combination index		θ
		Not Present
		Not Present
		Not Present
Downlink information for each radio link list	A5	
- Downlink information for each radio link		
- Choice mode		FDD
- Primary CPICH info		
- Primary scrambling code		Ref. to the Default setting in TS34.108 clause
		6.1 (FDD)
- PDSCH with SHO DCH info		Not Present
- PDSCH code mapping		Not Present
- Downlink DPCH info for each RL		Not present
- SCCPCH information for FACH		Not Present
Downlink information for each radio link list	A6	
- Downlink information for each radio link		500
- Choice mode		FDD
- Primary CPICH info		Different from the Default acting in TCO4 400
- Primary scrambling code		Different from the Default setting in TS34.108
RDSCU with SUO DCU into		clause 6.1 (FDD) Not Present
- PDSCH with SHO DCH info		
- PDSCH code mapping - Downlink DPCH info for each RL		Not Present
- DOWNLINK DPCH INTO FOR EACH RL - SCCPCH information for FACH		Not present Not Present

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

<End of Modification>

<Start of Modification>

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 New U-RNTI	Not Present (Now)

Information Element	Value/remark
- 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	2 PPMuxOntiona
 Information for each multiplexing option RLC logical channel mapping indicator 	2 RBMuxOptions Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- 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 CHOICE RLC size list 	1 Evolicit list
- CHOICE RLC Size list	Explicit list According to TS34.108 clause <u>6.10.2.4.4.16.10.2.4.1.3</u>
- REC Size muex	(standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	1
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
 Logical channel identity 	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard - SDU discard mode	No Discord
- SDU discard mode - MAX_DAT	No Discard 15
- MAA_DAT - Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	200
- Timer_status_prohibit	200

Information Element	Value/remark
- Timer_EPC	Not Present
 Missing PDU indicator 	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- Information for each multiplexing option	2 RBMuxOptions Not Present
 RLC logical channel mapping indicator 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 Downlink transport channel type 	1 DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	2
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
 UL Transport channel identity Logical channel identity 	Not Present 2
- CHOICE RLC size list	Z Explicit list
- RLC size index	According to TS34.108 clause <u>6.10.2.4.4.1</u> 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 Logical channel identity 	Not Present 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	No Discourt
- SDU discard mode - MAX_DAT	No Discard 15
- Transmission window size	128
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU - Poll_SDU	Not Present 1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
 Receiving window size Downlink RLC status info 	128
- 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 Uplink transport channel type 	1 DCH
- UL Transport channel identity	5
- Logical channel identity	3
·····	

Information Element	Value/remark
- CHOICE RLC size list	Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
 Downlink transport channel type 	DCH
 DL DCH Transport channel identity 	10
 DL DSCH Transport channel identity 	Not Present
 Logical channel identity 	3
 RLC logical channel mapping indicator 	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL DCH Transport channel identity	Not Present
- Logical channel identity	3 Free Visit Vist
- CHOICE RLC size list - RLC size index	Explicit list According to TS34.108 clause 6.10.2.4.4.1 6.10.2.4.1.3
- RLC Size Index	(standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	5
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	128
- Timer_RST	500
- Max_RST - Polling info	1
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	128
- Downlink RLC status info	000
- Timer_status_prohibit	200 Not Procent
- Timer_EPC - Missing RDU indicator	Not Present
- Missing PDU indicator - Timer_STATUS_periodic	TRUE 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	4
- CHOICE RLC size list	Configured
 MAC logical channel priority 	4
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10 Not Dresent
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4 Not Droppet
- RLC logical channel mapping indicator	Not Present
 Number of uplink RLC logical channels 	1

Information Element	Value/remark
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.4.16.10.2.4.1.3
	(standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	Not Frederic
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	Normal
- CHOICE TFCS representation	Addition
- TFCS complete reconfigure	Addition
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to
	TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps
	signalling radio bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- Power offset information	13.0 Kbps signaling fault bearer)
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled
	Gain Factors)
Cain factor Ro	
- Gain factor ßc	11 (below 64 kbps) 9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain
	(Not Present if the above is set to Computed Gain Factors)
- Gain factor ßd	15
	-
	(Not Present if the above is set to Computed Gain
Poforonoo TEC ID	Factors)
- Reference TFC ID	
- CHOICE mode	FDD Not Brogget
- Power offset Pp-m	Not Present
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required
	when the IE "RRC state indicator" is set to
Added on December und LIL T-OU in terms stiers	"CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured UL TrCH information	DOLL
- Uplink transport channel type	DCH
- UL Transport channel identity	5
- TFS	

Information Element	Value/remark
- CHOICE Transport channel type	Delicated transport channels
- Dynamic Transport format information	
- RLC Size	Value 16 results in an RLC size of 144 bits;
	OctetModeType1 ((8*sizeType1)+16).
- Number of TBs and TTI List	List with single entry
- Transmission Time Interval	Not Present
- Number of Transport blocks	0
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	40 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	160
- CRC size	16
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required
	when the IE "RRC state indicator" is set to
	"CELL_FACH", need is MP to align with ASN.1"
 Added or Reconfigured DL TrCH information 	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
- Uplink Transport channel type	DCH
- UL TrCH identity	5
- DCH quality target	Not Present
Frequency info	Not present
Maximum allowed UL TX power	Not present
CHOICE channel requirement	Not Present
Downlink information common for all radio links	Not Present
Downlink information for each radio link list	Not present

3GPP TSG-T1 Meeting #18 San Antonio, USA, 14th February 2003

3GPP TSG-T1 SIG Meeting #27 San Antonio, USA, 10th – 12th February 2003

Tdoc #T1-030041

Tdoc **#***T*1S030149

			СНА	NGE F	REQ	UES	т			CR-Form-v7
ж	34	<mark>4.108</mark>	CR <mark>176</mark>	ж	rev	- ³	€ C	urrent ver	sion: <mark>3.</mark>	10.0 ^ж
For <u>HELP</u>	on using	this forn	n, see bottor	n of this pa	age or l	ook at	the p	op-up tex	t over the	е ж symbols.
Proposed cha	nge affe	cts: U	ICC apps೫[MEX	Radio	Acce	ess Netwo	ork 🦲 C	Core Network
Title:		R to 34.1 IS03004	08 R99: Cor 5rev1	rections to	SB an	d SIB	confi	gurations	in clause	6.1 as
Source:	ដ <mark>N</mark>	okia								
Work item cod	le:	El						Date:	6 <mark>06/02</mark>	/2003
Category:	Det	F (corre A (corre B (addit C (funct D (edito ailed expl	ne following ca ection) esponds to a c tion of feature tional modificati anations of th GPP <u>TR 21.9</u>	correction in), ation of feat ion) e above cat	ure)			Release: # Use <u>one</u> o 2 R96 R97 R98 R99 Rel-4 Rel-5 Rel-6		e 1996) e 1997) e 1998) e 1999) e 4) e 5)
Reason for ch	ange: ዝ	blocks 02010	s in clause 6	.1 in chanថ ‡161 (T1-0	ge requ 20798)	ests C must	R #0 also b	66r1 (T1-(010472),	tem information CR #088 (T1- , SIB5 and SIB6
Summary of c	hange: ዝ	:	SB1 corre #066r1). "Referenc #066r1). TFCS rep from 'Addi 'CHOICE PRACH in IE "Power If IE "CHC factor ßc" Correctior	ition' (CR # Logical Cl SIB5 (CR offset Pp- DICE Gain shall be se made to I TFCI sign	I Value is "0" for for PF #088). hannel #088). m" is so Factors et to '11 IE "CHO	tag" fo or "Cor RACH List' ch et to "C s" is se l' (CR DICE 1	mpute and S nange dBm et to "s #088 FFCI s	ad Gain Fa CCPCH ad from 'A n" (CR #08 signalled g). signalling'	ot be pre actor" ad is change II' to 'Cor 38). gain facto ', parame	sent (CR

	 Added missing "CHOICE mode FDD" (CR #161). Corrected name of IE "Primary CPICH TX power" (TS 25.331 10.3.6.55) (CR #161). IEs having value equal to default values as specified in TS 25.331 should not be present. Thus is IEs "TFCI existence", "Fixed or Flexible position" and "Timing offset" marked as "Not present" in the relevant places (CR #161). In addition, AICH transmission timing set in the same way for each SIB5. (Set to "0".) For SIB6 (FDD): "Reference TFC ID" is "0" for "Computed Gain Factor" added (CR #066r1). TFCS representation for PRACH and SCCPCH is changed to 'Complete' from 'Addition' (CR #088). IE "PRACH system information list" in SIB6 has been marked as Not Present as the IE is optional and has the same values as for corresponding IE in SIB5. Similar modification made to "Secondary CCPCH system info" IE, where relevant (CR #161). Correction made to IE "CHOICE TFCI signalling", parameter should be "CHOICE TFCI signalling" and value "Normal" (TS 25.331, 10.3.5.20) (CR #161). Added missing "CHOICE mode FDD" (CR #161). IEs having value equal to default values as specified in TS 25.331 should not be present. Thus is IEs "TFCI existence", "Fixed or Flexible position" and "Timing offset" marked as "Not present" in the relevant places (CR #161).
Consequences if and approved:	f Incorrect SB1, SIB5 and SIB6 configurations in the specification.
Clauses affected:	€ 6.1.1, 6.1.2 and 6.1.3
Other specs affected:	Y N X Other core specifications X Test specifications X O&M Specifications
Other comments:	8

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

6.1.1 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

47

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

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

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
 PRACH system information list 	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
 Preamble scrambling code number 	0
- Puncturing Limit	1.0 <u>0</u>
- Available Sub Channel number	ʻ1111 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 ALL
- RLC size	360
- Number of TB and TTI List	
 Number of Transport blocks 	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured 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	
- CHOICE TFCI signallingNormal	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS completeaddition reconfiguration	
information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor , reference TFC id = 0
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	- <u>-50</u> dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	110
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	-50 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
	1 7 (ASC#1)
 Available signature End Index 	7 (ASC#1) '1111'B
	7 (ASC#1) '1111'B Not Present

l

- 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
	NOLFIESEIIL
- ASC Setting	
- CHOICE mode	FDD
 Available signature Start Index 	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
 Assigned Sub-channel Number 	'1111'B
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	EDD
 Available signature Start Index 	0 (ASC#7)
 Available signature End Index 	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
- Persistence scaling factor	
8	0.0.11 0.00110
 Persistence scaling factor 	0.9 (for ASC#2)
 Persistence scaling factor 	0.9 (for ASC#3)
 Persistence scaling factor 	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
 Persistence scaling factor 	0.9 (for ASC#6)
 Persistence scaling factor 	0.9 (for ASC#7)
 AC-to-ASC mapping table 	
- AC-to-ASC mapping	6 (AC0-9)
	. ,
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- CHOICE mode	FDD
- Primary CPICH DL-TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	4
-	- T
- RACH transmission parameters	
	2
Mmax	3 slot
- NB01min	
- NB01min - NB01max	10 slot
- NB01min - NB01max - AICH info	10 slot
- NB01min - NB01max - AICH info - Channelisation code	10 slot 3
- NB01min - NB01max - AICH info	10 slot
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator	10 slot 3 FALSE
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing	10 slot 3 FALSE <u>0</u> 4
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs)
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH)
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs)
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH)
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE
- NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128
 - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128 4
 - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128
 - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128 4 FALSE
 - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE
 - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128 4 FALSE FALSE FALSE Fixed
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE
 - NB01min - NB01max - AICH info - Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128 4 FALSE FALSE FALSE Fixed
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128 4 FALSE FALSE FALSE Fixed
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30 Normal
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation 	10 slot 3 FALSE <u>0</u> 4 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30 Normal
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30 Normal
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS <u>completeaddition reconfiguration</u> 	10 slot 3 FALSE <u>04</u> (For 2 SCCPCHs) (SCCPCH for standalone PCH) <u>FDD</u> Not Present FALSE 128 4 FALSE FALSE Fixed 30 <u>Normal</u> Complete <u>reconfiguration</u>
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete_reconfiguration 2 bit 0 Not Present 1
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information FACH/PCH information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete_reconfiguration 2 bit 0 Not Present 1 Not Present 1 Not Present
 NB01min NB01max AICH info Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	10 slot 3 FALSE 04 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete_reconfiguration 2 bit 0 Not Present 1

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 CHOICE Transport channel type 	Common transport channels
- Dynamic Transport format information	
	040
- 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
	230
- Rate matching attribute	
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- CHOICE mode	FDD
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
- CHOICE mode	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
Spreading factor	64
Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	Not Present
	Absence of this IE is equivalent to default value "TRUE"
Fixed or Elevible position	Not Present
- Fixed or Flexible position	
	Absence of this IE is equivalent to default value "Flexible"
Timing offset	Not Present
	Absence of this IE is equivalent to default value 0
- TFCS	
- CHOICE TFCI signallingNormal	Normal
- TFCI Field 1 information	Normal
- CHOICE TFCS representation	Complete reconfiguration
- TFCS completeaddition reconfiguration	
information	
	4 bit
- CHOICE CTFC Size	4 bit
- CHOICE CTFC Size - CTFC information	0
- CHOICE CTFC Size - CTFC information - Power offset information	0 Not Present
- CHOICE CTFC Size - CTFC information - Power offset information - CTFC information	0 Not Present 1
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	0 Not Present
- CHOICE CTFC Size - CTFC information - Power offset information - CTFC information	0 Not Present 1
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	0 Not Present 1 Not Present
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information 	0 Not Present 1 Not Present 2
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information 	0 Not Present 1 Not Present 2 Not Present 3
 CHOICE CTFC Size CTFC information Power offset information Power offset information Power offset information 	0 Not Present 1 Not Present 2 Not Present 3 Not Present
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information CTFC information CTFC information CTFC information 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information Power offset information 	0 Not Present 1 Not Present 2 Not Present 3 Not Present
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information CTFC information CTFC information CTFC information 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information Power offset information 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information Power offset information Power offset information CTFC information FACH/PCH information TFS 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH)
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information Power offset information CTFC information FACH/PCH information TFS CHOICE Transport channel type 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information Power offset information CTFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information 	0 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information CTFC information Power offset information CTFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH)
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information CTFC information Power offset information CTFC information Power offset information CTFC information CTFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List 	0 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information CTFC information Power offset information CTFC information Power offset information CTFC information RCH/PCH information RLC Size Number of TB and TTI List Number of Transport blocks 	0 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information CTFC information CTFC information Power offset information CTFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List 	0 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information TFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks 	0 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0
 CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information CTFC information Power offset information CTFC information Power offset information CTFC information Power offset information CTFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2
 CHOICE CTFC Size CTFC information Power offset information TFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD
 CHOICE CTFC Size CTFC information Power offset information FACH/PCH information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2
 CHOICE CTFC Size CTFC information Power offset information TFC information FACH/PCH information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List Semi-static Transport Format information 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD ALL
 CHOICE CTFC Size CTFC information Power offset information TFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval 	0 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD ALL 10 ms
 CHOICE CTFC Size CTFC information Power offset information TFC information FACH/PCH information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List Semi-static Transport Format information 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD ALL
 CHOICE CTFC Size CTFC information Power offset information TFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval Type of channel coding 	0 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD ALL 10 ms
 CHOICE CTFC Size CTFC information Power offset information TFC information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval Type of channel coding Coding Rate 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD ALL 10 ms Convolutional 1/2
 CHOICE CTFC Size CTFC information Power offset information TFC information FACH/PCH information FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size Number of TB and TTI List Number of Transport blocks Number of Transport blocks Number of Transport blocks CHOICE Mode CHOICE Logical Channel List Semi-static Transport Format information Transmission time interval Type of channel coding 	0 Not Present 1 Not Present 2 Not Present 3 Not Present 4 Not Present (FACH) Common transport channels 168 0 1 2 FDD ALL 10 ms Convolutional

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

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

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

- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
 PRACH system information list 	Not present
- PRACH system information	
- PRACH info	
CHOICE mode	FDD
Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	θ
Puncturing Limit	1.0
- Available Sub Channel number	<u>'1111 1111 1111'B</u>
- Transport Channel Identity	15
- RACH TES	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	168
Number of TB and TTI List	
Number of Transport blocks	4
	FDD
CHOICE Logical Channel List	ALL
	360
- Number of TB and TTI List	
- Number of Transport blocks	4
	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 TECS	
- Normal	
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete
- TFCS addition information	Complete
- CHOICE CTFC Size	2 bit
- Power offset information	Ŭ,
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id=0
- Power offset Pp-m	-5 dB
	-
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor &d	15
- Gain factor isu	
	- 5dB
- PRACH partitioning	
- Access Service Class	
ASC Setting	Not Present
	EDD
- CHOICE mode	
- Available signature Start Index	0 (ASC#1)
 Available signature Start Index Available signature End Index 	0 (ASC#1) 7 (ASC#1)
 Available signature Start Index Available signature End Index Assigned Sub-channel Number 	0 (ASC#1) 7 (ASC#1) '1111'B
 Available signature Start Index Available signature End Index Assigned Sub-channel Number ASC Setting 	0 (ASC#1) 7 (ASC#1)
 Available signature Start Index Available signature End Index Assigned Sub-channel Number ASC Setting ASC Setting 	0 (ASC#1) 7 (ASC#1) '1111'B Not Present
Available signature Start Index Available signature End Index Assigned Sub-channel Number ASC Setting ASC Setting CHOICE mode	0 (ASC#1) 7 (ASC#1) 111111B Not Present FDD
Available signature Start Index Available signature End Index Assigned Sub-channel Number ASC Setting ASC Setting CHOICE mode Available signature Start Index	0 (ASC#1) 7 (ASC#1) 111111B Not Present FDD 0 (ASC#3)
- Available signature Start Index - Available signature End Index - Assigned Sub-channel Number - ASC Setting - ASC Setting - CHOICE mode - Available signature Start Index - Available signature End Index	0 (ASC#1) 7 (ASC#1) '1111'B Not Present FDD 0 (ASC#3) 7 (ASC#3)
Available signature Start Index Available signature End Index Assigned Sub-channel Number ASC Setting ASC Setting CHOICE mode Available signature Start Index	0 (ASC#1) 7 (ASC#1) 111111B Not Present FDD 0 (ASC#3)

	FDD
Available signature Start Index	0 (ASC#5)
	7 (ASC#5)
	<u>'1111'B</u>
	Not Present
	FDD
—- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
Assigned Sub-channel Number	<u>'1111'B</u>
- Persistence scaling factor	
Persistence scaling factor	0.9 (for ASC#2)
Persistence scaling factor	0.9 (for ASC#3)
Persistence scaling factor	0.9 (for ASC#4)
 Persistence scaling factor 	0.9 (for ASC#5)
Persistence scaling factor	0.9 (for ASC#6)
Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	Not present
- Primary CPICH DL TX power	31
Constant value	-10
PRACH power offset	3dB
Power Ramp Step Preamble Retrans Max	300 4
RACH transmission parameters	т Г
Mmax	2
	3 slot
NB01max	10 slot
AICH info	
Channelisation code	3
STTD indicator	FALSE
 AICH transmission timing 	4
- Secondary CCPCH system information	Not present(For 2 SCCPCHs)
- Secondary CCPCH info	(SCCPCH for standalone PCH)
Secondary scrambling code	Not Present
STTD indicator	FALSE 128
	4
	FALSE
TFCI existence	FALSE
Fixed or Flexible position	Fixed
Timing offset	30
- TECS	
Normal	
TFCI Field 1 information	
	Complete
	2 bit
	0 Not Present
	Not Present 1
	+ Not Present
	(PCH)
	Common transport channels
- Dynamic Transport format information	
	240
	θ
	4
	FDD
	ALL
	10
Transmission time interval	10 ms Convolutional
- Type of channel coding	Convolutional
Coding Rate	1/2 230
—- Rate matching attribute —- CRC size	230 16 bit
- Transport Channel Identity	12 (for PCH)
manoport charmon doning	
CTCH indicator	FALSE

- PICH info	1
Channelisation code	2
Number of PI per frame	- 18
	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
Secondary scrambling code	Not Present
STTD indicator	FALSE
Spreading factor	64
Code number	4
Pilot symbol existence	FALSE
TFCI existence	TRUE
Fixed or Flexible position	Flexible
Timing offset	θ
- TFCS	
Normal	
TFCI Field 1 information	
	Complete
	4 bit
	0
	Not Present
	1 Not Present
— - Power offset information	1901 FT050Ht 2
	∠ Not Present
	Not Flosont 3
	Not Present
	4
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(FACH)
CHOICE Transport channel type	Common transport channels
Dynamic Transport format information	
	168
Number of TB and TTI List	
 – Number of Transport blocks 	θ
—- Number of Transport blocks	4
—- Number of Transport blocks	2
	FDD
	ALL
Semi-static Transport Format information	
	10 ms
Type of channel coding	Convolutional
Coding Rate	1 /2
	220 40 J //
	16 bit 13 (for EACL)
Transport Channel Identity	13 (for FACH)
	FALSE (FACH)
IFS CHOICE Transport channel type	(FACH) Common transport channels
Dynamic Transport format information	
	360
	θ
	4
	FDD
CHOICE Logical Channel List	ALL
Semi-static Transport Format information	
	10 ms
 - Type of channel coding 	Turbo
Rate matching attribute	130
	16bit
- Transport Channel Identity	14 (for FACH)
CTCH indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

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

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

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

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
Primary CCPCH info	Not present
 PRACH system information list 	
 PRACH system information 	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
 Preamble scrambling code number 	0
- Puncturing Limit	1.00
- 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 ALL
- RLC size	360
- Number of TB and TTI List	
- Number of Transport blocks	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ConfiguredALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- CHOICE TFCI signallingNormal	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS completeaddition reconfiguration	
nformation	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor, reference TFC id=0
- Reference TFC ID	
- CHOICE mode	FDD
- Power offset Pp-m	- <u>50</u> dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	110
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
Power offset Pp-m	-50 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
	FDD
- CHOICE mode	
- Available signature Start Index	0 (ASC#1) 7 (ASC#1)
 Available signature Start Index Available signature End Index 	7 (ASC#1)
- Available signature Start Index	

- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#3)
 Available signature End Index 	7 (ASC#3)
 Assigned Sub-channel Number 	'1111'B
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
 Available signature Start Index 	0 (ASC#5)
 Available signature End Index 	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- ASC Setting	Not Problem
5	
- CHOICE mode	FDD
 Available signature Start Index 	0 (ASC#7)
 Available signature End Index 	7 (ASC#7)
- Assigned Sub-channel Number	(1111'B
- Persistence scaling factor	
	0.0.(6 + 0.00 + 0)
- Persistence scaling factor	0.9 (for ASC#2)
 Persistence scaling factor 	0.9 (for ASC#3)
 Persistence scaling factor 	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
•	
- Persistence scaling factor	0.9 (for ASC#7)
 AC-to-ASC mapping table 	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- CHOICE mode	FDD
	31
- Primary CPICH DL -TX power	-
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	4
- RACH transmission parameters	
Mmax	2
NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
	FALSE
STTD indicator	
- STTD indicator	
- AICH transmission timing	0
- AICH transmission timing - Secondary CCPCH system information	
- AICH transmission timing - Secondary CCPCH system information	0
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH)
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode Secondary scrambling code	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode _ Secondary scrambling code _ STTD indicator - Spreading factor	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode _ Secondary scrambling code _ STTD indicator - Spreading factor	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE
- AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info <u>CHOICE mode</u> Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info <u>CHOICE mode</u> Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30 Normal
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS <u>completeaddition reconfiguration</u> 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30 Normal
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete_reconfiguration
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS <u>completeaddition reconfiguration</u> 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE FALSE Fixed 30 Normal
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete_reconfiguration
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information CTFC information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present 1
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information CTFC information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present 1 Not Present
 AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	0 (For 2 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 4 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present 1

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- 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 - Transport Channel Identity	16 bit 12 (for PCH)
- CTCH indicator	FALSE
- PICH info	
- CHOICE mode	FDD
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
<u>- CHOICE mode</u>	FDD
- Secondary scrambling code	Not Present FALSE
- Spreading factor	128
- Code number	5
- Pilot symbol existence	FALSE
- TFCI existence	Not Present
	Absence of this IE is equivalent to default value "TRUE"
- Fixed or Flexible position	Not Present
	Absence of this IE is equivalent to default value "Flexible"
Timing offset	Not Present
- TFCS	Absence of this IE is equivalent to default value 0
- CHOICE TFCI signallingNormal	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS completeaddition reconfiguration	
information	
- CHOICE CTFC Size	2 bit
- CTFC information	
 Power offset information CTFC information 	Not Present
- CIFC Information - 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	100
- Number of Transport blocks	0
•	1
 Number of Transport blocks CHOICE Mode 	FDD
	ALL
- CHOICE Logical Channel List	ALL
 Semi-static Transport Format information Transmission time interval 	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
 Number of Transport blocks 	0
 Number of Transport blocks 	1
- CHOICE Mode	FDD
 CHOICE Logical Channel List 	ALL
 Semi-static Transport Format information 	
 Transmission time interval 	10 ms
 Type of channel coding 	Convolutional
- Coding Rate	1/3
 Rate matching attribute 	220
- CRC size	16bit
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	TRUE
- CBS DRX Level 1 information	
 Period of CTCH allocation (N) 	2
- CBS frame offset (K)	0

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

- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not Present
 PRACH system information list 	Not Present
- PRACH system information	
- PRACH info	
CHOICE mode	FDD
Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	θ
Puncturing Limit	1.0
- Available Sub Channel number	<u>'1111 1111 1111'B</u>
- Transport Channel Identity - RACH TES	15
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
RLC size	168
Number of TB and TTI List	
Number of Transport blocks	4
- CHOICE Mode	FDD
CHOICE Logical Channel List	ALL
	360
- Number of Transport blocks	4
	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	1 50
- CRC size	16
- RACH TECS	
Normal	
- CHOICE TFCS representation	Complete
- TFCS addition information	
	2 bit
- CTFC information	θ
- Power offset information	
	Computed Gain Factor reference TFC id=0
- Power offset Pp-m	-5 dB
- CTFC information	4
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- Gain factor &c	10
- Gain factor &d	15 15
- Reference TFC ID	0
- Power offset Pp-m	- 5dB
- PRACH partitioning	
- Access Service Class	
ASC Setting	Not Present
ASC Setting	
	FDD
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
	<u>'1111'B</u>
	⁽¹¹¹¹⁾ B Not Present
 Assigned Sub-channel Number ASC Setting 	Not Present
	Not Present FDD
	Not Present FDD 0 (ASC#3)
Assigned Sub-channel Number ASC Setting CHOICE mode Available signature Start Index Available signature End Index	Not Present FDD 0 (ASC#3) 7 (ASC#3)
 Assigned Sub-channel Number ASC Setting CHOICE mode Available signature Start Index Available signature End Index Assigned Sub-channel Number 	Not Present FDD 0 (ASC#3) 7 (ASC#3) '1111'B
Assigned Sub-channel Number ASC Setting CHOICE mode Available signature Start Index Available signature End Index	Not Present FDD 0 (ASC#3) 7 (ASC#3)

- Available signature Start Index	0 (ASC#5)
	7 (ASC#5)
- Assigned Sub-channel Number	<u>'1111'B</u>
ASC Setting	Not Present
ASC Setting	
	FDD
Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Assigned Sub-channel Number	(1111'B
- Persistence scaling factor	0.0 (for 0.0042)
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	
Power Ramp Step	3dB
Preamble Retrans Max	4
RACH transmission parameters	
Mmax	2
NB01min	3 slot
NB01max	10 slot
AICH info	
Channelisation code	3
	FALSE
AICH transmission timing	θ
- Secondary CCPCH system information	°
- Secondary CCPCH info	(SCCPCH including two FACHs)
<u>- CHOICE mode</u>	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	Not Present
TFOT existence	Absence of this IE is equivalent to default value "TRUE"
Fixed or Flovible position	
Fixed or Flexible position	Not Present
Timing offect	Absence of this IE is equivalent to default value "Flexible"
Timing offset	90
- TFCS	Nemeel
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS completeaddition reconfiguration	
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
- FACH/PCH information	
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
- Number of Transport blocks	1
- Number of Transport blocks	2
	-

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

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

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

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

Contents of Scheduling Block 1 (FDD)

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

- SIB_REP	64
- SIB_POS	26
 SIB_POS offset info 	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
 Scheduling information 	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	36
 SIB_POS offset info 	Not present
- SIB type SIBs only	System Information Type 186

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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
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 <u>0</u>
- Available Sub Channel number	'11111 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 ALL
- RLC size	360
- Number of TB and TTI List	
 Number of Transport blocks 	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ConfiguredALL
- Semi-static Transport Format information	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- CHOICE TFCI signallingNormal	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS completeaddition reconfiguration	
nformation	
- CHOICE CTFC Size	2 bit
- CTFC information	0
 Power offset information 	
- CHOICE Gain Factors	Computed Gain Factor-reference TFC id=0
- Reference TFC ID	<u>0</u>
- CHOICE mode	FDD
- Power offset Pp-m	- <u>50</u> dB
- CTFC information	1
 Power offset information 	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	1 <u>1</u> 0
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	<u>FDD</u>
- Power offset Pp-m	<mark>-5<u>0</u>dB</mark>
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#1)
	7 (ASC#1)
- Available signature End Index	
 Available signature End Index Assigned Sub-channel Number 	(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
- ASC Setting	
- CHOICE mode	FDD
 Available signature Start Index 	0 (ASC#5)
 Available signature End Index 	7 (ASC#5)
- Assigned Sub-channel Number	'1111'B
- ASC Setting	Not Present
- ASC Setting	Hot Problem
5	
- CHOICE mode	FDD
 Available signature Start Index 	0 (ASC#7)
 Available signature End Index 	7 (ASC#7)
- Assigned Sub-channel Number	'1111'B
	11110
- 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)
- CHOICE mode	FDD
- Primary CPICH DL-TX power	31
Constant value	-
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	4
RACH transmission parameters	
Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
-	3
- Channelisation code	
- Channelisation code - STTD indicator	FALSE
- Channelisation code - STTD indicator	PALSE 0
- Channelisation code - STTD indicator - AICH transmission timing	0
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information	0 (For 3 SCCPCHs)
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH)
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info <u>CHOICE mode</u> Secondary scrambling code 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - StTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - StTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signallingNormal	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - StTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signallingNormal - TFCI Field 1 information	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 Normal
- Channelisation code - STTD indicator - AICH transmission timing - Secondary CCPCH system information - Secondary CCPCH info - CHOICE mode - Secondary scrambling code - Secondary scrambling code - STTD indicator - Spreading factor - Code number - Pilot symbol existence - TFCI existence - Fixed or Flexible position - Timing offset - TFCS - CHOICE TFCI signallingNormal - THOICE TFCS representation	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 Normal
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 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 Normal
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 <u>Normal</u> Complete <u>reconfiguration</u>
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS <u>CHOICE TFCI signallingNormal</u> TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CHOICE CTFC Size CTFC information 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 Normal Complete reconfiguration
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCI Field 1 information CHOICE TFCS representation TFCS complete addition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information CTFC information 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present 1
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCI Field 1 information CHOICE TFCS representation TFCS complete addition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information CTFC information 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present 1
 Channelisation code STTD indicator AICH transmission timing Secondary CCPCH system information Secondary CCPCH info CHOICE mode Secondary scrambling code STTD indicator Spreading factor Code number Pilot symbol existence TFCI existence Fixed or Flexible position Timing offset TFCS CHOICE TFCI signallingNormal TFCI Field 1 information CHOICE TFCS representation TFCS completeaddition reconfiguration information CHOICE CTFC Size CTFC information Power offset information CTFC information Power offset information 	0 (For 3 SCCPCHs) (SCCPCH for standalone PCH) FDD Not Present FALSE 128 6 FALSE FALSE FALSE Fixed 30 Normal Complete reconfiguration 2 bit 0 Not Present 1

l

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1

- 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
	ALL
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	10
- 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	
- CHOICE mode	FDD
- Channelisation code	2
- Number of PI per frame	18
- STTD indicator	FALSE
- Secondary CCPCH info	(SCCPCH including two FACHs)
<u>- CHOICE mode</u>	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
- TFCI existence	Not Present
Fixed or Flovible position	Absence of this IE is equivalent to default value "TRUE" Not Present
- Fixed or Flexible position	
—	Absence of this IE is equivalent to default value "Flexible"
Timing offset	Not Present
	Absence of this IE is equivalent to default value 0
- TFCS	
 <u>CHOICE TFCI signalling</u>Normal 	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS completeaddition reconfiguration	
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
- 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	
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	10
- 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	Common transport channels
- Bynamic mansport format information	260
	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)
<u>- CHOICE mode</u>	FDD
- Secondary scrambling code	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	2
- Pilot symbol existence	FALSE
- TFCI existence	Not Present
	Absence of this IE is equivalent to default value "TRUE"
- Fixed or Flexible position	Not Present
Time in a ff a st	Absence of this IE is equivalent to default value "Flexible"
Timing offset	90
- TFCS	
 <u>CHOICE TFCI signalling</u>Normal 	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS complete addition reconfiguration	
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
- 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	100
- Number of Transport blocks	0
	0
- Number of Transport blocks	1
- Number of Transport blocks	2
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
 Semi-static Transport Format information 	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	16 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels

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

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

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3GPP TSG-T1 M		g #18 ^h - 14 th February 2003	3	<i>Tdoc</i> ≋ <i>T</i> 1-030043							
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Reason for change	- - -	This document is revised The network shall initiate would initiate paging for P establish PS domain, loca PS.	the paging S establis	g proc heme	edur ent u	re for PS serv sing IMSI, the	e UE <mark>shall-</mark> could	dn't			
Summary of chang	ge:	Correction to the IE "UE	indentity "	of P/	AGIN	IG TYPE 1 m	essage.				
Consequences if not approved:	ж	Correct UE can't establis	h a RRC	sonne	ectio	n <u>a PS domair</u>	<u>)</u> .				
Clauses affected:	ж	9.1.1									
Other specs affected:	Ħ	YNXOther core specificXTest specificationsXO&M Specifications		ж	TS3	4.123-1					
Other comments:	æ	N/A									

How to create CRs using this form: Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

9.1.1 Default RRC Message Contents (FDD)

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

Information Element	Value/remark
Message Type	
Paging record list	
- Paging record	
- CHOICE Used paging identity	CN identity
- Paging cause	Terminating Interactive Call
- CN domain identity	PS domain
- CHOICE UE identity	
- <u>P-TMSI IMSI (GSM-MAP)</u>	Use P-TMSI allocated by SS at initial attach.
、 ,	Not present – use the default value
	Set to the same octet string as in the IMSI stored in the
	USIM card
BCCH modification info	Not Present

CR-Form-v7 CHANGE REQUEST Ħ 34.108 CR 180 ж Current version: **3.10.0** [#] жrev For **HELP** on using this form, see bottom of this page or look at the pop-up text over the *x* symbols. ME X Radio Access Network UICC apps೫ Core Network Proposed change affects: Title: CR to 34.108 R99; Clarification of autentication test algorithm and GSM cipher key æ Ericsson Source: ж Work item code: # Date: # 28/01/2003 ж F Category: Release: X R99 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) (Release 1996) R96 B (addition of feature), R97 (Release 1997) **C** (functional modification of feature) (Release 1998) R98 **D** (editorial modification) R99 (Release 1999) Rel-4 (Release 4) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6) Reason for change: # Clarification needed to authentication test algorithm for the inter-RAT testing case. Summary of change: # 1. Clause 8.1.2: Added paragraph stating that for test USIM intended to be used for inter-RAT testing the GSM cipher key shall be derived from the UMTS cipher/integrity keys CK and IK according function c3 as defined in 33.102. 2. Clause 8.1.2.1: Added reference to GSM cipher key Kc and function c3 3. Clause 8.1.2.3.1: Added description for the authentication accept case for test USIM supporting derivation of GSM cipher key Kc. Consequences if Authentication accept case using test USIM not described for the inter-RAT æ not approved: UTRA/GSM case.

Clauses affected:	Ħ	8	.1.2			
		Υ	Ν			
Other specs	ж		Χ	Other core specifications	ж	
affected:			Χ	Test specifications		

Tdoc ⋇T1-030045

Tdoc # T1S030075

3GPP TSG- T1 Meeting #18 San Antonio, US, 10th – 14th February 2003

3GPP TSG- T1 SIG Meeting #25 San Antonio, US, 10th – 14th February 2003

		X O&M Specifications	
Other comments:	æ		

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- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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 Test USIM Parameters

8.1 Introduction

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

8.1.1 Definitions

"Test USIM card":

A USIM card supporting the test algorithm for authentication, programmed with the parameters defined in this clause. The electrical, mechanical and environmental requirements of the test USIM card are specified in TS 31.101 and TS 31.102.

"Test USIM":

Either a test USIM card or the USIM simulator programmed with the parameters defined in this clause.

8.1.2 Definition of the test algorithm for authentication

In order to be able to easily test the UMTS authentication and key agreement procedure as specified in TS 33.102 [24] and TS 33.105 [26] along the whole system, the availability of a test algorithm for generation of authentication vector based on quintets is needed (in GSM triplets was used). Additionally, calculation of the parameters for resynchronisation requests is needed. The definition of the test algorithm are the functions f1, f2, f3, f4, f5 and the corresponding functions for re-synchronization are f1* and f5*.

For test USIM intended to be used for inter-RAT test cases then the test USIM shall support the conversion function c3 according to TS 33.102 [24] clause 6.8.1.2 to derive the GSM ciphering key Kc from the UMTS cipher/integrity keys CK and IK.

The test algorithm defined in the present clause shall be implemented in test USIM cards as well in test USIM simulators and SS. The test algorithm may also, for test purposes, be implemented in AUC.

The following procedure employs bit wise modulo 2 addition ("XOR").

The following convention applies:

All data variables in the specification of this test algorithm are presented with the most significant substring on the left hand side and the least significant substring on the right hand side. A substring may be a bit, byte or other arbitrary length bitstring. Where a variable is broken down into a number of substrings, the leftmost (most significant) substring is numbered 0, the next most significant is numbered 1, and so on through to the least significant.

8.1.2.1 Authentication and key derivation in the test USIM and SS

The following steps describe sequence of operations for the functions f1, f2, f3, f4 and f5 to perform in the test USIM and SS, in order to obtain the XMAC/MAC, RES/XRES, CK, IK, Kc and AK respectively, to be used in the authentication and key agreement procedure.

Step 1:

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

The result **XDOUT** of this is:

XDOUT[bits 0,1,...126,127] = **K** [bits 0,1,...126,127] XOR **RAND**[bits 0,1,...126,127]

Step 2:

RES (test USIM), XRES (SS), CK, IK and AK are extracted from XDOUT this way:

Kc[bits $0, 1, \dots, 62, 63$] = **c3**(**CK**,**IK**), see TS 33.102 clause 6.8.1.2

Step 3:

Concatenate SQN with AMF to obtain CDOUT like this:

CDOUT[bits 0,1,...62,63] = **SQN**[bits 0,1,...46,47] || **AMF**[bits 0,1,...14,15]

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

Step 4:

XMAC (test USIM) and MAC (SS) are calculated from XDOUT and CDOUT this way:

XMAC[bits $0,1,\ldots,62,63$] = **f1**(**XDOUT**, **CDOUT**) = **XDOUT**[bits $0,1\ldots,62,63$] XOR **CDOUT**[bits $0,1,\ldots,62,63$]

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

Step 5:

The SS calculates the authentication token AUTN:

AUTN[bits 0,1,...126,127] = **SQN** ⊕ **AK**[bits 0,1,...46,47] || **AMF**[bits 0,1,...14,15] || **MAC**[bits 0,1,...62, 63]

Where **SQN** \oplus **AK**[bits 0,1,...46,47] = **SQN**[bits 0,1,...46,47] XOR **AK**[bits 0,1,...46,47]

8.1.2.2 Generation of re-synchronisation parameters in the USIM

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

AMF_{RESYNCH} = AMF[bits 0,1,..14,15] = "1111 1111 1111 1111"

When the test USIM receives an authentication token (AUTN) having the value of AMF field equal to the $AMF_{RESYNCH}$ value then the test USIM shall initiate the re-synchronisation procedure.

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

Step 1:

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

The result **XDOUT** of this is:

XDOUT[bits 0,1,...126,127] = **K**[bits 0,1,...126,127] XOR **RAND**[bits 0,1,...126,127]

Step 2:

AK is extracted from XDOUT this way:

AK[bits 0,1,...46,47] = **f5***(**XDOUT**) = **XDOUT**[bits 24,25,...70,71]

Step 3:

Concatenate SQN_{MS} with AMF* to obtain CDOUT like this:

CDOUT[bits 0,1,...62,63] = **SQN**_{MS}[bits 0,1,...46,47] \parallel **AMF***[bits 0,1,...14,15]

Where AMF* assumes a dummy value of all zeros

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

```
For SS and AUC the SQN_{MS} = AUTS[bits 0,1,...46,47] XOR AK[bits 0,1,...46,47] where AUTS is the received re-synchronisation parameter.
```

Step 4:

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

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

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

Step 5:

The test USIM calculates the re-synchronisation parameter AUTS:

AUTS[bits 0,1,...110,111] = **SQN**_{MS} \oplus **AK**[bits 0,1,...46,47] || **MAC-S**[bits 0,1,...62,63]

Where $SQN_{MS} \oplus AK$ [bits 0,1,...46,47] = SQN_{MS} [bits 0,1,...46,47] XOR AK[bits 0,1,...46,47]

8.1.2.3 Using the authentication test algorithm for UE conformance testing

8.1.2.3.1 Authentication accept case

The authentication accept case is illustrated in figure 8.1.2.3.1 and 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the $AMF_{RESYNCH}$ value.

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

Based on the received RAND parameter the test USIM calculates the RES, CK, IK, Kc and XMAC parameters according to clause 8.1.2.1 (step 1 to 4). The test USIM extracts the $SQN_{MS} = SQN_{SS}$, AMF and MAC parameters from the received authentication token AUTN.

The test USIM checks that XMAC = MAC and then return the RES, CK and IK parameters to the ME.

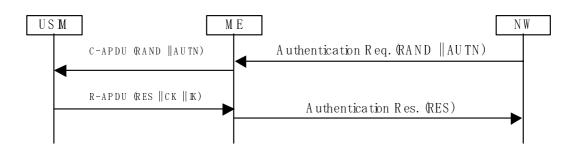


Figure 8.1.2.3.1: Network accepted by UE (USIM not supporting derivation of GSM cipher key Kc)

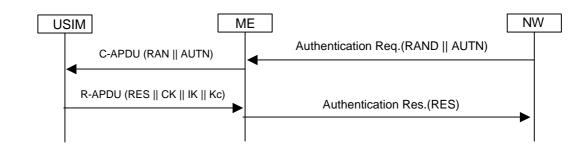


Figure 8.1.2.3.2: Network accepted by UE (USIM supporting derivation of GSM cipher key Kc)

8.1.2.3.2 MAC failure case

The MAC failure case is illustrated in figure 8.1.2.3.2.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value different from the $AMF_{RESYNCH}$ value and a MAC value different from what is calculated in clause 8.1.2.1 step 4.

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

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

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

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

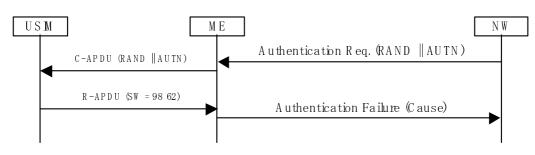


Figure 8.1.2.3.2: MAC failure cases

8.1.2.3.3 SQN failure case

The SQN failure case is illustrated in figure 8.1.2.3.3.

The SS calculates the authentication token AUTN according to the test algorithm as specified in clause 8.1.2.1 (step 1 to 5) using an AMF value equal to $AMF_{RESYNCH}$.

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

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

When the test USIM identifies that the AMF field is equal to the $AMF_{RESYNCH}$ value it calculates the re-synchronisation parameter AUTS as specified in clause 8.1.2.2 (step 1 to 5) and forward it to the ME.

The ME sends an AUTHENTICATION FAILURE message to the SS including the AUTS parameter.

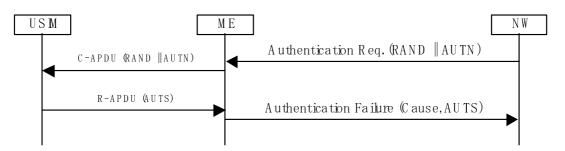


Figure 8.1.2.3.3: SQN failure case

San Antonio, US, 10th – 14th February 2003 3GPP TSG- T1 SIG Meeting #25 *Tdoc* **#***T*1S030077 San Antonio, US, 10th – 14th February 2003 CR-Form-v7 **CHANGE REQUEST** Ħ Current version: 3,10,0 [#] 34.108 CR 182 ж жrev For **HELP** on using this form, see bottom of this page or look at the pop-up text over the *#* symbols. ME X Radio Access Network UICC apps₩ Core Network Proposed change affects: Title: CR to 34.108 R99; Addition of simulated network environment for inter-RAT test æ cases Source: 光 Ericsson Work item code: # Date: # 28/01/2003 ж F Category: 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 (Release 4) Rel-4 be found in 3GPP TR 21.900. (Release 5) Rel-5 Rel-6 (Release 6) Reason for change: # Currently there is no simulated network environment defined in 34.108 for the inter-RAT UTRA/GSM case. Summary of change: # 1. Clause 2: Added reference [31] 3GPP TS 51.010-1. 2. Clause 6.1: Added information describing the cell numbering scheme used for intra-, inter-frequency and inter-RAT cell environment. 3. Clause 6.1.0b: Added new SIB11 definition for Cell 1 and the FDD/GSM inter-RAT case. 4. Clause 6.1.4: a. Added SIB11 content to Cell 1 to Cell 8 for the FDD/GSM inter-RAT case. b. Added information for Cell 9 and Cell 10 (new GSM cells) 5. Clause 6.1.5: a. Removed the word "only" from the title. 6. Clause 6.1.6: a. Removed the word "only" in the title. 7. Added new clause 6.1.7 for GSM reference radio conditions to be used by

3GPP TSG- T1 Meeting #18

Tdoc **≋***T1-030047*

	inter-RAT test cases.
Consequences if not approved:	X No default values for SIB11 and SIB12 will exist for the inter-RAT case.
Clauses affected:	
Other specs affected:	Y N X Other core specifications X Alignment of inter-RAT test cases in 34.123-1 to use Cell 9 and Cell 10 for GSM cells X O&M Specifications
Other comments:	ж

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 34.121: "Terminal Conformance Specification; Radio transmission and reception (FDD)".
- [3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [4] 3GPP TS 34.124: "ElectroMagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment".
- [5] 3GPP TS 34.122: "Terminal Conformance Specification; Radio transmission and reception (TDD)".
- [6] 3GPP TS 34.109: "Terminal Logical Test Interface; Special conformance testing functions".
- [8] 3GPP TS 25.214: "Physical layer procedures (FDD)".
- [7] 3GPP TS 25.301 "Radio Interface Protocol Architecture".
- [9] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [10] 3GPP TR 25.990: "Vocabulary".
- [11] 3GPP TS 25.101: "UE Radio transmission and reception (FDD)".
- [12] 3GPP TS 25.102: "UTRA (UE) TDD; Radio transmission and reception".
- [13] 3GPP TS 25.211: "Physical Channels and mapping of Transport Channels onto Physical channels (FDD)".
- [14] 3GPP TS 25.212: "Multiplexing and Channel Coding (FDD)".
- [15] 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".
- [16] 3GPP TS 26.110: "Codec for Circuit Switched Multimedia Telephony Service; General Description".
- [17] 3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
- [18] 3GPP TR 23.910: "Circuit Switched Data Bearer Service".
- [19] Void.
- [20] 3GPP TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".

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

<End of modified section>

<Start of next 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), <u>-and</u> dual mode networks (FDD+TDD), <u>or inter-RAT networks (FDD or TDD + GSM)</u>.

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.

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

- Cell 1, Cell 2, Cell 3, Cell 7 and Cell 8 are associated with FDD/TDD cells using frequency f1;

- Cell 4, Cell 5 and Cell 6 are associated with FDD/TDD cells using frequency f2; and

- Cell 9 and Cell 10 are associated with GSM cells.

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

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

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

6.1.0a Default Master Information Block and Scheduling Block messages

6.1.0a.1 Grouping SIBs for testing

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

6.1.0a.2 SIB configurations

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

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

6.1.0a.3 SIB default schedule

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

Frame No / SIB_POS	0	2	4	6	8	10	12	14
Block Type	MIB	SB1	SIB7	SIB6	MIB	SIB6	SIB6	SIB6
Frame No / SIB_POS	16	18	20	22	24	26	28	30
Block Type	MIB	SB1	SIB7/SIB3	SIB1/SIB2	MIB	SIB12	SIB12	SIB12
Frame No / SIB_POS	32	34	36	38	40	42	44	46
Block Type	MIB	SB1	SIB7/SIB18	SIB5	MIB	SIB5	SIB5	SIB5
Frame No / SIB_POS	48	50	52	54	56	58	60	62
Block Type	MIB	SB1	SIB7/SIB4		MIB	SIB11	SIB11	SIB11

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

	[a
- MIB value tag	1
- Supported PLMN types	
- PLMN type	GSM-MAP
- PLMN identity	
- MCC digit	Set to the same Mobile Country Codes stored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- MNC digit	Set to the same Mobile Network Codesstored in the test USIM card (TS 34.108 clause 8.3.2.2 EF IMSI(IMSI)).
- ANSI-41 Core Network information	Not Present
- References to other system information blocks	
and scheduling blocks	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value Tag
- Cell Value tag	1
- Scheduling	
- SEG_COUNT	1
- SIB_REP	16
- SIB_POS	2
- SIB_POS offset info	Not Present – use default
- SIB_r03 onset into	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 1
- Scheduling information	System mornation Type T
- CHOICE Value tag	Cell Value tag
- Cell Value tag	
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 2
- Scheduling information	bystem monnation type 2
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	20
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 3
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	52
- SIB_POS offset info	Not Present – use default
- SIB and SB type	System Information Type 4
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	4
- SIB_REP	64
- SIB_POS	38
- SIB_POS offset info	
- SIB_FOS ONSECTION - SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	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	6
- SIB_POS offset info	
- SIB_OFF	4
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	5 51
- CHOICE Value tag	Not Present
- SEG_COUNT	1
- SIB_REP	16
- SIB POS	4
- SIB_POS offset info	Not Present
	System Information Type 7
- SIB type SIBs only	System mornation Type /
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	58
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	64
- SIB_POS	26
- SIB_POS offset info	20
- SIB_OFF	2
- SIB_OFF	2
	2 System Information Type 12
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	36
- SIB_POS offset info	Not Present
- SIB type SIBs only	System Information Type 18

Contents of Scheduling Block 1 (TDD)

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

- SEG_COUNT	
- 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	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB POS	54
- SIB_POS offset info	Not Present - use default
- SIB type SIBs only	System Information Type 14
- Scheduling information	System monnation Type 14
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_REF - SIB_POS	6
- SIB_POS - SIB_POS offset info	o 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)

00 80H
PS
GSM-MAP
00 00H
7
cs
GSM-MAP
1E 01H
7
'
4000 milliseconds
7
10 seconds
1
Not Present (2000 milliseconds: default value)
Not Present (2: default value)
Not Present (4000 milliseconds: default value)
Not Present (3: default value)
Not Present (2000 milliseconds: default value)
Not Present (2: default value)
Not Present (30 minutes: default value)
Not Present (30 seconds: default value)
Not Present (160 milliseconds: default value)
Not Present (5 seconds: default value)
Not Present (160 milliseconds: default value)
Not Present (4: default value)
Not Present (2000 milliseconds: default value)
Not Present (1 seconds: default value)
Not Present (1: default value)
Not Present (3 seconds: default value)
Not Present (20: default value)
Not Present (12 seconds: default value)
Not Present (180 seconds: default value)
Not Present (1: default value)
Not Present (30 seconds: default value)
Not Present (180 seconds: default value)

Contents of System Information Block type 2

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

Contents of System Information Block type 3 (FDD)

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

Contents of System Information Block type 3 (TDD)

- SIB4 Indicator	
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	Net area and
- Mapping info	Not present
- Cell selection and reselection quality measure	(no data)
- CHOICE mode	TDD
- Sintrasearch	10 dB
- Sintersearch	10 dB
- SsearchHCS	Not present
- RAT List	This parameter is configurable
- RAT identifier	GSM
- Ssearch,RAT	-32 dB
- SHCS,RAT	Not present
- Slimit,ShearchRAT	Not Present
- Qrxlevmin	-103 dBm
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	Not present
- Maximum allowed UL TX power	30dBm
- Cell Access Restriction	
- Cell barred	Not barred
 Intra-frequency cell re-selection indicator 	Not present
- T _{barred}	Not present
 Cell Reserved for operator use 	Not reserved
- Cell Reservation Extension	Not reserved
- Access Class Barred List	
- 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)

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

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

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

Contents of System Information Block type 5 (FDD)

- SIB6 indicator	TRUE
- PICH Power offset	-5 dB
- CHOICE Mode	FDD
- AICH Power offset	5 dB
- Primary CCPCH info	Not present
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	64
- Preamble scrambling code number	0
- Puncturing Limit	1.00
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	15
- RACH TFS	
 CHOICE Transport channel type 	Common transport channels
 Dynamic Transport format information 	
- RLC size	168
 Number of TB and TTI List 	
 Number of Transport blocks 	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
- RLC size	360
 Number of TB and TTI List 	
 Number of Transport blocks 	1
- CHOICE Mode	FDD
- CHOICE Logical Channel List	Configured
 Semi-static Transport Format information 	
- Transmission time interval	20 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	150
- CRC size	16
- RACH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
 CHOICE TFCS representation 	Complete reconfiguration
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	2 bit
- CTFC information	0
- Power offset information	
- CHOICE Gain Factors	Computed Gain Factor
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- CTFC information	1
- Power offset information	
- CHOICE Gain Factors	Signalled Gain Factor
- CHOICE mode	FDD
- Gain factor ßc	11
- Gain factor ßd	15
- Reference TFC ID	0
- CHOICE Mode	FDD
- Power offset Pp-m	0 dB
- PRACH partitioning	
- Access Service Class	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	
	0 (ASC#1) 7 (ASC#1)
- Available signature End Index	(ASC#1) (1111'B
- Assigned Sub-channel Number	Not Present
- ASC Setting	
- 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
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
	(1111'B
- Assigned Sub-channel Number	
- ASC Setting	Not Present
- ASC Setting	
- CHOICE mode	FDD
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- 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)
- CHOICE mode	FDD
- Primary CPICH TX power	31
- Constant value	-10
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	4
- RACH transmission parameters	
•	2
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	
- Channelisation code	3
- STTD indicator	FALSE
- AICH transmission timing	0
	0
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	FDD
 Secondary scrambling code 	Not Present
- STTD indicator	FALSE
- Spreading factor	64
- Code number	1
- Pilot symbol existence	FALSE
	-
- TFCI existence	Not Present
	Absence of this IE is equivalent to default value "TRUE"
- Fixed or Flexible position	Not Present
	Absence of this IE is equivalent to default value "Flexible"
- Timing offset	Not Present
, , , , , , , , , , , , , , , , , , ,	Absence of this IE is equivalent to default value 0
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
	Normal
- CHOICE TFCI signalling	Ινυττιαι
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	4 bit
- CTFC information	0
- Power offset information	Not Present
- CTFC information	1
- Power offset information	Not Procent
	Not Present
- CTFC information	2

- Power offset information	Not Present
- CTFC information	3
- Power offset information	Not Present
- CTFC information	
- Power offset information	Not Present
- CTFC information	5
 Power offset information 	Not Present
- CTFC information	6
 Power offset information 	Not Present
- CTFC information	8
- Power offset information	Not Present
- FACH/PCH information	
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information - RLC Size	210
	240
- Number of TB and TTI List	
 Number of Transport blocks 	0
 Number of Transport blocks 	1
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	230
- CRC size	16 bit
- Transport Channel Identity	12 (for PCH)
- CTCH indicator	FALSE
- TFS	(FACH)
-	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	100
- RLC Size	168
- Number of TB and TTI List	
- Number of Transport blocks	0
 Number of Transport blocks 	1
 Number of Transport blocks 	2
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
 Transmission time interval 	10 ms
- Type of channel coding	Convolutional
- Coding Rate	1/2
- Rate matching attribute	220
- CRC size	16 bit
- Transport Channel Identity	13 (for FACH)
- CTCH indicator	FALSE
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC Size	360
- Number of TB and TTI List	
	0
- Number of Transport blocks	0
- Number of Transport blocks	-
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	40
- Transmission time interval	10 ms
- Type of channel coding	Turbo
- Rate matching attribute	130
- CRC size	16bit
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- PICH info	
- CHOICE mode	FDD
- Channelisation code	2
- Number of PI per frame	18
	FALSE
- STTD indicator - CBS DRX Level 1 information	FALSE 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	-10
- CHOICE mode	TDD
- CHOICE SyncCase	Sync Case 2
- Timeslot	0 Nat Decemb
- 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	10
- 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
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#1)
- CHOICE mode	ITDD
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
- Available Subchannels	null
- ASC Settings	(ASC#2)
- CHOICE mode	
- Available Channelisation codes indices	Not Present (Default all)
- CHOICE subchannel size	Size1
 Available Subchannels 	null
- ASC Settings - CHOICE mode	(ASC#3) 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	0.0 (6 . 0.00 (10))
- Persistence scaling factor	0.9 (for ASC#2)
 Persistence scaling factor 	0.9 (for ASC#3)
 Persistence scaling factor 	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- 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)
	(IIO data)
- Secondary CCPCH system information	
- Secondary CCPCH system information	
- Secondary CCPCH info	
- Secondary CCPCH info - CHOICE mode	TDD
- CHOICE mode - Offset	
- CHOICE mode - Offset - Common timeslot info	0
 CHOICE mode Offset Common timeslot info 2nd interleaving mode 	0 Frame
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding 	0 Frame Reference clause 6.10 Parameter Set
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1")
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1")
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble configuration burst type 1 and 3 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble configuration burst type 1 and 3 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List Channelisation Code 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List Channelisation Code TFCS 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List CholCE <i>TFCI signalling</i> 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List Channelisation Code TFCS CHOICE TFCI signalling Normal 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List Channelisation Code TFCS CHOICE <i>TFCI signalling</i> Normal TFCI Field 1 information 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.)
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List Channelisation Code TFCS CHOICE TFCI signalling Normal 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and
 - CHOICE mode Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble Shift - Code List - Channelisation Code - TFCS -CHOICE <i>TFCI signalling</i> - Normal - TFCI Field 1 information - CHOICE TFCS representation 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.)
 - CHOICE mode Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble Shift - Code List - Channelisation Code - TFCS -CHOICE <i>TFCI signalling</i> - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete information 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration
 - CHOICE mode Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble Shift - Code List - Channelisation Code - TFCS -CHOICE <i>TFCI signalling</i> - Normal - TFCI Field 1 information - CHOICE TFCS representation 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration Number of bits used must be enough to cover all
 - CHOICE mode Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble Shift - Code List - Channelisation Code - TFCI FECS -CHOICE <i>TFCI signalling</i> - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS complete information - CHOICE CTFC Size 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
 - CHOICE mode Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble Shift - Code List - Channelisation Code - TFCI Field 1 information - CHOICE TFCI signalling - Normal - TFCS representation - TFCS complete information - CHOICE CTFC Size - CTFC information 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 Parameter Set
 CHOICE mode Offset Common timeslot info 2nd interleaving mode TFCI coding Puncturing limit Repetition period Repetition length Individual timeslot info Timeslot number TFCI existence Midamble Shift and burst type CHOICE Burst Type Midamble Allocation Mode Midamble Shift Code List Channelisation Code TFCS CHOICE TFCI signalling Normal TFCI Field 1 information CHOICE TFCS representation TFCS complete information CHOICE CTFC Size CTFC information Power offset information 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
 - CHOICE mode Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble Shift - Code List - Channelisation Code - TFCI Field 1 information - CHOICE TFCI signalling - Normal - TFCS representation - TFCS representation - TFCS complete information - CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 Parameter Set 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
 - CHOICE mode Offset - Common timeslot info - 2nd interleaving mode - TFCI coding - Puncturing limit - Repetition period - Repetition length - Individual timeslot info - Timeslot number - TFCI existence - Midamble Shift and burst type - CHOICE Burst Type - Midamble Allocation Mode - Midamble Shift - Code List - Channelisation Code - TFCI Field 1 information - CHOICE TFCI signalling - Normal - TFCS representation - TFCS complete information - CHOICE CTFC Size - CTFC information - Power offset information 	0 Frame Reference clause 6.10 Parameter Set Reference clause 6.10 Parameter Set Not Present (MD "1") Not present 1 Reference clause 6.10 Parameter Set Type 1 Default midamble 4 Not Present Reference clause 6.10 Parameter Set (This IE is repeated for TFC number for PCH and FACH.) Complete reconfiguration Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Reference clause 6.10 Parameter Set

- 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	Deference clause C.10 Decemeter Cet
	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
	Reference clause 6.10 Parameter Set
- Rate matching attribute	
- CRC size	Reference clause 6.10 Parameter Set
- Transport Channel Identity	14 (for FACH)
- CTCH indicator	FALSE
- PICH info	
- CHOICE mode	TDD
- Timeslot number	0
- Midamble shift and burst type	
- CHOICE Burst Type	Type 1
- Midamble Shift	0
	-
- Channelisation code	16/16
- Repetition period/length	64/2
- Offset	0
 Paging indicator length 	4
- N _{GAP}	4
- N _{PCH}	2
- CBS DRX Level 1 information	– Not Present

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

- PICH power offset	-5 dB
- CHOICE Mode	FDD

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

Contents of System Information Block type 6 in connected mode (similar to SIB type 5) (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	TALOL
PRACH system information	
- PRACH info	
- CHOICE mode	TDD
- Timeslot number	14
- PRACH Channelisation Code List	050
- CHOICE SF	SF8
 Channelisation Code List 	
 Channelisation Code 	8/1
- Channelisation Code	8/2
 Channelisation Code 	8/3
 Channelisation Code 	8/4
- PRACH Midamble	Direct
Transport Channel Identity	15
RACH TFS	
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	
- RLC size	Reference clause 6.10 Parameter Set
- Number of TB and TTI List	Reference clause 6.10 Parameter Set
- Number of Transport blocks	Reference clause 6.10 Parameter Set
- CHOICE Mode	TDD
- Transmission Time Interval	Not Present
- CHOICE Logical Channel List	Configured
- Semi-static Transport Format information	
	Reference clause 6.10 Parameter Set
- Transmission time interval	
- Type of channel coding	Reference clause 6.10 Parameter Set
- Coding Rate	Reference clause 6.10 Parameter Set
- Rate matching attribute	Reference clause 6.10 Parameter Set
- CRC size	Reference clause 6.10 Parameter Set
RACH TFCS	Not present
PRACH partitioning	
- Access 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)
	TDD
- CHOICE mode	
- CHOICE mode - Available Channelisation codes indices	Not Present (Default all)
- Available Channelisation codes indices	Not Present (Default all)
 Available Channelisation codes indices CHOICE subchannel size 	Size1
- Available Channelisation codes indices	

- CHOICE mode	ITDD
- 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)
5	
- 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
- CHOICE mode	TDD (no data)
- Secondary CCPCH system information	
- Secondary CCPCH system information	
- Secondary CCPCH info	
- CHOICE mode	TDD
- Offset	0
- Common timeslot info	0
- 2 nd interleaving mode	Not Brasset (MD "Fromo")
	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	Туре 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
- TFCS complete reconfiguration information	
- CHOICE CTFC Size	Number of hits used must be anough to sover all
	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
CTEC information	
- CTFC information	Reference clause 6.10 Parameter Set Not Present
Devices offenet information	
- Power offset information	NOLFIESEN
- FACH/PCH information	
- FACH/PCH information - TFS	(PCH)
 FACH/PCH information TFS CHOICE Transport channel type 	
 FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information 	(PCH) Common transport channels
 FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information RLC Size 	(PCH) Common transport channels Reference clause 6.10 Parameter Set
 FACH/PCH information TFS CHOICE Transport channel type Dynamic Transport format information 	(PCH) Common transport channels

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

Contents of System Information Block type 7 (FDD)

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

Contents of System Information Block type 7 (TDD)

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

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

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

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

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

Contents of System Information Block type 11 (FDD)

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

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

 FACH measurement occasion info Measurement control system information Use of HCS Cell selection and reselection quality measure 	<u>A1. A2</u>	TRUE Not Present Not used CPICH RSCP Not Present Absence of this IE is equivalent to default value 1 Not present (This IE shall be ignored by the UE for SIB11) 1 Not present Absence of this IE is equivalent to default value OdB Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Measurement control system information Use of HCS Cell selection and reselection quality measure Intra-frequency measurement system information Intra-frequency measurement identity Intra-frequency cell info list CHOICE intra-frequency cell removal New intra-frequency cells Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary CPICH TX power TX Diversity indicator Cell selection and Re-selection info Intra-frequency cell id Cell info Cell info Cell info Cell info Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell info Cell info Cell info Cell info Cell info Primary CPICH TX power TX Diversity indicator Cell info Primary CPICH TX power Primary CPICH TX power Primary CPICH TX power TX Diversity indicator 	<u>A1. A2</u>	Not used CPICH RSCP Not Present Absence of this IE is equivalent to default value 1 Not present (This IE shall be ignored by the UE for SIB11) 1 Not present Absence of this IE is equivalent to default value OdB Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Use of HCS Cell selection and reselection quality measure Intra-frequency measurement system information Intra-frequency cell info list CHOICE intra-frequency cell removal New intra-frequency cells Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell info Cell info Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Primary CPICH TX power TX Diversity indicator 	<u>A1, A2</u>	CPICH RSCP Not Present Absence of this IE is equivalent to default value 1 Not present (This IE shall be ignored by the UE for SIB11) 1 Not present Absence of this IE is equivalent to default value OdB Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
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measure / Intra-frequency measurement system // information - Intra-frequency cell info list - CHOICE intra-frequency cell removal // New intra-frequency cells - Intra-frequency cell id - Cell info - Cell individual offset // Reference time difference to cell - Read SFN indicator - CHOICE mode - Primary CPICH info - Primary CPICH TX power - TX Diversity indicator - Cell info - Cell individual offset - Reference time difference to cell - Read SFN indicator - CHOICE mode - Primary CPICH info - Primary Scrambling code - Primary scrambling code -	<u>A1, A2</u>	Not Present Absence of this IE is equivalent to default value 1 Not present (This IE shall be ignored by the UE for SIB11) 1 Not present Absence of this IE is equivalent to default value OdB Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
measure ////////////////////////////////////	<u>A1, A2</u>	Absence of this IE is equivalent to default value 1 Not present (This IE shall be ignored by the UE for SIB11) 1 Not present Absence of this IE is equivalent to default value OdB Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
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 CHOICE intra-frequency cell removal New intra-frequency cells Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Reference to cell id Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary CPICH info Primary CPICH TX power TX Diversity indicator 		(This IE shall be ignored by the UE for SIB11) 1 Not present Absence of this IE is equivalent to default value 0dB Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
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 Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary CPICH info Primary CPICH info Primary cPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Absence of this IE is equivalent to default value OdB Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
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 Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH TX power TX DIVERSITY CPICH TX power TX Diversity indicator 		Not Present FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary cPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		FALSE FDD Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
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 Primary scrambling code Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Refer to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Primary scrambling code Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		(FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Primary CPICH TX power TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		(FDD)" in clause 6.1.4 Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Not Present FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 TX Diversity indicator Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		FALSE Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Cell Selection and Re-selection info Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Not Present (The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Intra-frequency cell id Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		(The IE shall be absent as this is the serving cell) 2 Not present Absence of this IE is equivalent to default value
 Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		2 Not present Absence of this IE is equivalent to default value
 Cell info Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Not present Absence of this IE is equivalent to default value
 Cell individual offset Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Absence of this IE is equivalent to default value
 Reference time difference to cell Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Absence of this IE is equivalent to default value
 Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		
 Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		
 Read SFN indicator CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		OdB
 CHOICE mode Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		Not present
 Primary CPICH info Primary scrambling code Primary CPICH TX power TX Diversity indicator 		TRUE
 Primary scrambling code Primary CPICH TX power TX Diversity indicator 		FDD
- Primary CPICH TX power - TX Diversity indicator		
- TX Diversity indicator		Refer to clause titled "Default settings for cell No.2
- TX Diversity indicator		(FDD)" in clause 6.1.4
		Not Present
- Cell Selection and Re-selection info		FALSE
		Not present
		For neigbouring cell, if HCS is not used and all the
		parameters in cell selection and re-selection info
		are Default value, this IE is absent.
- Intra-frequency cell id		3
- Cell info		Same content as specified for Intra-frequency cell
		id=2 with the exception that value for Primary
		scrambling code shall be according to clause titled
		"Default settings for cell No.3 (FDD)" in clause 6.1.4
- Intra-frequency cell id	Δ1	7
- Cell info	<u>A1</u>	Same content as specified for Intra-frequency cell
		id=2 with the exception that value for Primary
		scrambling code shall be according to clause titled
later for every 1111		"Default settings for cell No.7 (FDD)" in clause 6.1.4
- Intra-frequency cell id		8
- Cell info		Same content as specified for Intra-frequency cell
		id=2 with the exception that value for Primary
		scrambling code shall be according to clause titled
		"Default settings for cell No.8 (FDD)" in clause 6.1.4
- Cells for measurement	<u>A1, A2</u>	Not Present
	A1, A2	
- Filter coefficient		Not present
		Absence of this IE is equivalent to the default value
- CHOICE mode		
- Measurement quantity		FDD
		FDD CPICH RSCP

- Intra-frequency reporting quantity for	Not Present
RACH Reporting	
 Maximum number of reported cells on 	Not Present
RACH	
 Reporting information for state CELL_DCH 	
 Intra-frequency reporting quantity 	
 Reporting quantities for active set cells 	
 Cell synchronisation information 	FALSE
reporting indicator	
 Cell identity reporting indicator 	TRUE
- CHOICE mode	FDD
 CPICH Ec/N0 reporting indicator 	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- Reporting quantities for monitored set	
cells	
- Cell synchronisation information	TRUE
reporting indicator - 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	Event trigger
Reporting Mode	
- CHOIČE 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	Monitored set cells
- Reporting Range Constant	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis - Threshold Used Frequency	0.0 Not Present
- Reporting deactivation threshold	2
- 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
- Triggering condition 2	Not Present
- Reporting Range Constant	5dB
- Cells forbidden to affect Reporting range	Not Present
- W	1.0
- Hysteresis	0.0
- Threshold Used Frequency	Not Present
- Reporting deactivation threshold	Not Present
- Replacement activation threshold	Not Present
- Time to trigger	640 Not Brocont
- Amount of reporting	Not Present Not Present
- 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	1c
- Triggering condition 1	Not Present
- Triggering condition 2	Not Present

- Reporting Range Constant	1	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
		4000
- Reporting interval		4000
 Reporting cell status 		
- CHOICE reported cell		Report cell within active set and/or monitored set
		cells on used frequency
 Maximum number of reported cells 		3
- Inter-frequency measurement system	A1, A2	
information		
- Inter-frequency cell info list		
		Not present
 CHOICE Inter-frequency cell removal 		Not present
		(This IE shall be ignored by the UE for SIB11)
 New inter-frequency cells 		
 Inter frequency cell id 		4
- Frequency info		
- CHOICE mode		FDD
- UARFCN uplink(Nu)		Not present
		Absence of this IE is equivalent to apply the default
		duplex distance defined for the operating frequency
		according to 25.101
 UARFCN downlink(Nd) 		Reference to table 6.1.2 for Cell 4
- Cell info		
 Cell individual offset 		Not present
		Absence of this IE is equivalent to default value
		0dB
Deference time difference to call		
- Reference time difference to cell		Not present
 Read SFN indicator 		FALSE
- CHOICE mode		FDD
- Primary CPICH info		
- Primary scrambling code		Refer to clause titled "Default settings for cell No.4
· ······		(FDD)" in clause 6.1.4
Drimory CDICH Ty power		Not present
- Primary CPICH Tx power		
- TX Diversity Indicator		FALSE
 Cell Selection and Re-selection Info 		Not present (same values as for serving cell
		applies)
- Inter frequency cell id		5
- Frequency info		Not Present
		Absence of this IE is equivalent to value of the
		previous "frequency info" in the list.
Callinfo		
- Cell info		Same content as specified for Inter-frequency cell
		id=4 with the exception that value for Primary
		scrambling code shall be according to clause titled
		"Default settings for cell No.5 (FDD)" in clause 6.1.4
- Inter frequency cell id		6
- Frequency info		Not Present
		Absence of this IE is equivalent to value of the
		previous "frequency info" in the list.
- Cell info		Same content as specified for Inter-frequency cell
		id=4 with the exception that value for Primary
		scrambling code shall be according to clause titled
		"Default settings for cell No.6 (FDD)" in clause 6.1.4
- Cell for measurement		Not present
- Inter-RAT measurement system	A1	Not Present
information	<u></u>	
- Inter-RAT measurement system	۸2	
	<u>A2</u>	
information		
- Inter-RAT cell info list		
- CHOICE Inter-RAT cell removal		Not Present
		(This IE shall be ignored by the UE for SIB11)
- New inter-RAT cells		
- Inter-RAT cell id		<u>9</u>
	•	· — ·

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

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

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)
- Intra-frequency measurement system	
information	
- Intra-frequency measurement identity	Not Present
	Absence of this IE is equivalent to default value
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Not present
	(This IE shall be ignored by the UE for SIB11)
- New intra-frequency cells	
- Intra-frequency cell id	1
- Cell info	
- Cell individual offset	Not present
	Absence of this IE is equivalent to default value 0dB
- Reference time difference to cell	Not Present
- Read SFN Indicator	FALSE
- CHOICE mode	TDD
- Primary CCPCH info	
- Cell parameters ID	Reference clause 6.1 Default settings for cell
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Present
- Timeslot number	Not Present
- Burst type	Not Present
- Cell Selection and Re-selection info	Not Present
	(The IE shall be absent as this is the serving cell)
- Cells for measurement	Not Present
- Intra-frequency measurement quantity	
- Filter coefficient	Not present
	Absence of this IE is equivalent to the default value 0
- CHOICE mode	TDD
- Measurement quantity list	
- Measurement quantity	P-CCPCH RSCP

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- Intra-frequency reporting quantity for RACH	Not Present
Reporting - Maximum number of reported cells on RACH	Not Present
- Reporting information for state CELL_DCH	Not Flesent
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- Cell synchronisation information reporting	TRUE
indicator	
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	TRUE
 Pathloss reporting indicator 	FALSE
 Reporting quantities for monitored set cells 	
 Cell synchronisation information reporting 	FALSE
indicator	
 Cell identity reporting indicator 	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	FALSE
- Proposed TSGN reporting required	FALSE
- P-CCPCH RSCP reporting indicator	
- 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	E von unggor
-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 Not Descent
- Threshold used frequency	Not Present
 Reporting deactivation threshold Replacement activation threshold 	3 Not Present
- Time to trigger	640
- Amount of reporting	4
- Reporting interval	4000
- Reporting cell status	1000
- CHOICE reported cells	Report cell within active set and/or monitored cells on used
	frequency
- Maximum number of reported cells	3
- Inter-frequency measurement system	Not Present
information	
 Inter-RAT measurement system information 	Not Present
 Traffic volume measurement system 	Not Present
information	

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

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

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

- FACH measurement occasion info	Not Present
- Measurement control system information	
,	
- Use of HCS	Not used
- Cell selection and reselection quality measure	CPICH RSCP
- Intra-frequency measurement system	
	Not present
information	
•	1

- Inter-frequency measurement system	Not present
information - Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present

<End of modified section>

<Start of next modified section>

6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

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

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

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

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

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

Default settings for cell No.1 (TDD):

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

Cell No.2

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

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

Default settings for cell No.2 (FDD):

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

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

 Intra-frequency measurement system information 	<u>A1, A2</u>	
 - New intra-frequency cells - Intra-frequency cell id		2
- Cell info - Intra-frequency cell id		Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.2 (FDD)" in clause 6.1.4
- Cell info		Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0 with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- Intra-frequency cell id - Cell info		3 Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0
 Intra-frequency cell id Cell info 	<u>A1</u>	7 Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0
 Intra-frequency cell id Cell info 		8 Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0
- Inter-frequency measurement system information	<u>A1, A2</u>	
 New inter-frequency cells Inter frequency cell id Frequency info 		4 Same content as specified for Inter-frequency
- Cell info		cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0 Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0
 Inter frequency cell id Frequency info 		5 Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0
- Cell info		Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0
 Inter frequency cell id Frequency info Cell info 		6 Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0 Same content as specified for Inter-frequency
		cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0
- Inter-RAT cell info list - New inter-RAT cells	<u>A2</u>	
<u>- Inter-RAT cells</u> <u>- Inter-RAT cell id</u> <u>- CHOICE Radio Access Technology</u> - GSM		9 GSM Same content as specified for inter-RAT cell
- Inter-RAT cell id		id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b 10
<u>- CHOICE Radio Access Technology</u> <u>- GSM</u>		GSM Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b

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

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

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

 Intra-frequency measurement system information 	<u>A1, A2</u>	
- New intra-frequency cells - Intra-frequency cell id - Cell info		3 Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be accordin to clause titled "Default settings for cell No.3
- Intra-frequency cell id - Cell info		(FDD)" in clause 6.1.4 Same content as specified for Intra-frequenc cell id=2 (neigbour cell) in SIB11 for Cell 1 in
		sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
 Intra-frequency cell id Cell info 		2 Same content as specified for Intra-frequenc cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info	<u>A1</u>	7 Same content as specified for Intra-frequenc cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id - Cell info		8 Same content as specified for Intra-frequenc cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b
Inter-frequency measurement system information	<u>A1, A2</u>	
 New inter-frequency cells Inter frequency cell id Frequency info 		4 Same content as specified for Inter-frequenc cell id=4 in SIB11 for Cell 1 in sub-clasue
- Cell info		6.1.0b Same content as specified for Inter-frequenc cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
 Inter frequency cell id Frequency info 		5 Not Present Absence of this IE is equivalent to value of th
- Cell info		previous "frequency info" in the list. Same content as specified for Inter-frequenc cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id - Frequency info		6 Not Present Absence of this IE is equivalent to value of th
- Cell info		previous "frequency info" in the list. Same content as specified for Inter-frequenc cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b
Inter-RAT cell info list	<u>A2</u>	
- <u>New inter-RAT cells</u> - <u>Inter-RAT cell id</u> - CHOICE <i>Radio Access Technology</i> - GSM		9 GSM Same content as specified for inter-RAT cell
<u>- Inter-RAT cell id</u> - CHOICE Radio Access Technology		id=9 in SIB11 for Cell 1 in sub-clause 6.1.0b 10 GSM

<u> </u>	Same content as specified for inter-RAT cell id=10 in SIB11 for Cell 1 in sub-clause 6.1.0b
<u></u>	
Condition	Evelopetion
Condition	Explanation
A1	FDD cell environment

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

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

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

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

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

Default settings for cell No.4 (TDD):

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

Cell No.5

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

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

Default settings for cell No.5 (FDD):

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

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

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

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

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

Default settings for cell No.5 (TDD):

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

Cell No.6

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

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

Default settings for cell No.6 (FDD):

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

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

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

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

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

Default settings for cell No.6 (TDD):

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

Cell No.7

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

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

Default settings for cell No.7 (FDD):

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

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

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

Default settings for cell No.7 (TDD):

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

Cell No.8

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

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

Default settings for cell No.8 (FDD):

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

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

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

Default settings for cell No.8 (TDD):

Downlink input level	Reference clause 6.10 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

Cell No.9

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

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

Default settings for cell No.9 (GSM):

See table 6.1.10

Cell No.10

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

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

Default settings for cell No.10 (GSM):

See table 6.1.10

6.1.5 Reference Radio Conditions for signalling test cases 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.

Parameter	Unit	Cell 1			
Cell type		Serving cell			
UTRA RF Channel Number		Channel 1			
Qqualmin	dB	-24			
Qrxlevmin	dBm	-81			
UE_TXPWR_MAX_RACH	dBm	21			
CPICH Ec (see notes 1 and 2)	dBm/3.84 -60				
	MHz				
NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP					
is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.					
NOTE 2: The cell fulfils TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.					

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

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

Parameter	Unit	Cell 1	Cell 2	Cell 4
Cell type		Serving cell	Suitable	Suitable
			neighbour	neighbour
			intra-	inter-
			frequency	frequency
			cell	cell
UTRA RF Channel Number		Channel 1	Channel 1	Channel 2
Qqualmin	dB	-24	-24	
Qrxlevmin	dBm	-81	-8	31
UE_TXPWR_MAX_RACH	dBm 21 21			
CPICH Ec (see notes 1 and 2)	dBm/3.84 -60 -70			0
MHz				
NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP				
is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.				
NOTE 2: Both cells fulfil TS 25.304, 5.2.3.1.2 and TS 25.133, 8.1.2.2.1.				

Table 6.1.3: Default settings for a non-suitable cell

Parameter	Unit	Level		
Qqualmin	dB	-24		
Qrxlevmin	dBm	-81		
UE_TXPWR_MAX_RACH	dBm	21		
CPICH_Ec	dBm/3.84	-90		
	MHz			
NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as				
RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by				
the SS				
NOTE 2: The cell is not suitable according to TS 25.304, 5.2.3.1.2				

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

Parameter	Unit	Level	
Qqualmin	dB	-24	
Qrxlevmin	dBm	-81	
UE_TXPWR_MAX_RACH	dBm	21	
CPICH_Ec	dBm/3.84	≤ -122	
	MHz		
NOTE 1: The power level is specified in terms of CPICH_Ec instead of CPICH_RSCP as RSCP is a receiver measurement and only CPICH_Ec can be directly controlled by the SS.			
NOTE 2: The cell is not suitable according to TS 25.304, 5.2.3.1.2.			

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)

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

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

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

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

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

Table 6.1.8: Default settings for a non-suitable cell

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

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

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

6.1.7 Reference Radio Conditions for signalling test cases (GSM)

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

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

Parameter	Unit	Cell 9	<u>Cell 10</u>
Cell type		Serving cell	Suitable neighbour cell
GSM RF Channel Number		Channel 1	Channel 2
Base transceiver Station Identity Code (BSIC)		BSIC1	BSIC2
Qrxlevmin	<u>dBm</u>	<u>-81</u>	<u>-81</u>
MS TXPWR MAX CCH	<u>dBm</u>	According to maximum output power for the power class of the MS under test	
<u>RF level</u>	<u>dBm</u>	<u>-48</u>	<u>-54</u>
NOTE: Both cells fulfil TS 25	5.304, 5.2.6.1.4	and TS 25.133, 8.1.2.5	

Table 6.1.11: Default settings for a non-suitable cell

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

<End of modified section>

3GPP TSG- T1 Meeting #18 San Antonio, US, 10th – 14th February 2003 3GPP TSG- T1 SIG Meeting #26 San Antonio, US, 10th – 14th February 2003 **Tdoc #T1S030110** CR-Form-v7 CHANGE REQUEST Ж Current version: 3,10,0 [#] 34.108 CR 184 ж жrev For **HELP** on using this form, see bottom of this page or look at the pop-up text over the *#* symbols. ME X Radio Access Network UICC apps₩ Core Network Proposed change affects: Title: # CR to 34.108 R99; Corrections to SIB1 to align with default values for LAC and RAC in 51.010-1. Source: 光 Ericsson Work item code: ₩ Date: 第 22/01/2003 ж F Category: Release: # R99 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 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) Rel-4 Detailed explanations of the above categories can (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6) Reason for change: # Default values for LAC and fRAC in SIB1 are not aligned with default values for LAC and RAC in 51.010-1 (reference 51.010-1 26.1.1 and 40.1.1). Having different default values will cause that the default values will not possible to use for the inter-RAT test cases. Summary of change: # SIB1: 1. For CN common GSM-MAP NAS system information and IE "GSM-MAP NAS system information" changed LAC from "0080H" to "0001H" 2. For CN domain specific GSM-MAP NAS system information and IE "GSM-MAP NAS system information" changed RAC from "00" to "05", i.e. IE "GSM-MAP NAS system information"" is changed from "0000H" to "0500H" **Consequences** if H Default values for LAC and RAC in 34.108 not aligned with default values in 51.010-1 causing unecessary complexity to inter-RAT test cases. not approved: 6.1.0b Clauses affected: Ж X Other core specifications ж Other specs

Tdoc # T1-030049

affected:	X Test specifications X O&M Specifications
Other comments:	ж

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- 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

6.1.0b Default System Information Block Messages

1

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

	7
 CN common GSM-MAP NAS system 	
information	
- GSM-MAP NAS system information	00 <u>01</u> 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 -05 00H
- CN domain specific DRX cycle length	7
coefficient	
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
- GSM-MAP NAS system information	1E 01H
- CN domain specific DRX cycle length	7
coefficient	
- UE Timers and constants in idle mode	
-T300	4000 milliseconds
-N300	7
-T312	10 seconds
- N312	1
- UE Timers and constants in connected mode	
- T301	Not Present (2000 milliseconds: default value)
- N301	Not Present (2: default value)
- T302	Not Present (4000 milliseconds: default value)
- N302	Not Present (3: default value)
- T304	Not Present (2000 milliseconds: default value)
- N304	Not Present (2: default value)
- T305	Not Present (30 minutes: default value)
- T307	Not Present (30 seconds: default value)
- T308	Not Present (160 milliseconds: default value)
- T309	Not Present (5 seconds: default value)
- T310	Not Present (160 milliseconds: default value)
- N310	Not Present (4: default value)
- T311	Not Present (2000 milliseconds: default value)
- T312	Not Present (1 seconds: default value)
- N312	Not Present (1: default value)
- T313	Not Present (3 seconds: default value)
- N313	Not Present (20: default value)
- T314	Not Present (12 seconds: default value)
- T315	Not Present (180 seconds: default value)
- N315	Not Present (1: default value)
- T316	Not Present (30 seconds: default value)
- T317	Not Present (180 seconds: default value)

3GPP TSG-T San Antonio		-		2003		Td	ос ж <i>T1S030203</i>
	CR-Form-v7						
ж	TS 34	<mark>4.108</mark> C	R <mark>186</mark>	rev -	, ₩ Cu	irrent versio	^{on:} <mark>3.10.0</mark> [#]
For <u>HELP</u>	on using	this form,	see bottom of t	his page or lool	k at the po	op-up text c	over the X symbols.
Proposed change affects: UICC apps MEX Radio Access Network X Core Network				Core Network			
Title:	<mark>೫ C</mark> l	R to 34.10	8 R99; Addition	of default inter-	RAT han	dover mess	sages
Source:	ដ Er	icsson					
Work item cod	le: ೫					Date: ⊮	29/01/2003
Category:	Det	 F (correct A (correct B (addition C (function D (editoria ailed explan 	following categor tion) ponds to a correc on of feature), onal modification of al modification) nations of the abo PP <u>TR 21.900</u> .	tion in an earlier of feature)	l release)	Use <u>one</u> of tl 2 (R96 (R97 (R98 (R99 (Rel-4 (Rel-5 (R99 he following releases: GSM Phase 2) Release 1996) Release 1997) Release 1998) Release 1999) Release 4) Release 5) Release 6)
Reason for ch	ange: भ	default	messages have	been defined t	o avoid d	ependancie	est case. In general, es between test cases. andover messages
Summary of c	hange:₿	1.	commonly used HANDOVER F A default mess	ROM UTRAN (age is introduce d in test cases f ROM UTRAN F age is introduce	COMMAN ed reflecti for inter R AILURE ed based	D ng the mes AT handov on the com	ssage contents most er amon denominator of andover failure
Consequences not approved:		Depend	lancies betweer	test cases ren	nain, whic	h may resu	ult in errors
Clauses affect	ted: #	8 <mark>9.1.1</mark>					
Other specs affected:	я	X T	ther core specif est specification &M Specificatio	IS	TS 34.1	23-1	

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Other comments: ೫

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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.

9 Default Message Contents

9.1 Default Message Contents for Signalling

9.1.1 Default RRC Message Contents (FDD)

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

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

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

Default SYSTEM INFORMATION:

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

< Skip until modified message>

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	The presence of this IE is dependent on IXIT statements in
	TS 34.123-2. If integrity protection is indicated to be active,
	this IE is present with the values of the sub IEs as stated
	below. Else, this IE and the sub-IEs are omitted.
- Message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC Message sequence number	SS provides the value of this IE, from its internal counter.
CN domain identity	CS domain or PS domain
NAS message	See Specific Message Content for each test case

Contents of HANDOVER FROM UTRAN COMMAND-GSM message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects one integer between 0 to 3
Integrity check info	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.
Activation time	now
RAB Info	
<u>- RAB identity</u>	<u>0000 0001B</u>
<u>- CN domain identity</u>	<u>CS domain</u>
 - NAS Synchronization Indicator 	Not present
- Re-establishment timer	<u>Use T315</u>
Inter-system message	
<u>- System type</u>	<u>GSM</u>
- Frequency Band	Set to "GSM/ PCS 1900" if GSM/ PCS 1900 is used in this
	test. Otherwise set to "GSM/DCS 1800 Band"
- CHOICE GSM message	Single GSM message
<u> </u>	GSM HANDOVER COMMAND formatted as BIT STRING
	(1512). The contents of the HANDOVER COMMAND see
	next table.

Contents of HANDOVER FROM UTRAN FAILURE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it matches the same value used in the
	corresponding downlink HANDOVER FROM UTRAN
	COMMAND –GSM message
Integrity check info	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.
Inter-RAT handover failure	
-Inter-RAT handover failure cause	physical channel failure
Inter-system message	Not Checked

Contents of INITIAL DIRECT TRANSFER message: AM

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

•••

Ħ Current version: 3.10.0 # 34.108 CR 188 ж жrev For **HELP** on using this form, see bottom of this page or look at the pop-up text over the **#** symbols. Proposed change affects: UICC apps₩ ME X Radio Access Network Core Network Title: # CR to 34.108 R99; Correction of activation time IEs in default messages Source: **光** Ericsson Work item code: # Date: # 29/01/2003 Ж Release: # R99 Category: F 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) (Release 1999) D (editorial modification) R99 Detailed explanations of the above categories can Rel-4 (Release 4) be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6)

CHANGE REQUEST

Reason for change: ℜ	 The Value/remark for the IE 'COUNT-C activation time' is not correct (i.e. not in line with TS 25.331) for the following default messages in TS 34.108 section 9.1.1. PHYSICAL CHANNEL RECONFIGURATION COMPLETE RADIO BEARER SETUP COMPLETE RADIO BEARER RECONFIGURATION COMPLETE RADIO BEARER RECONFIGURATION COMPLETE RADIO BEARER RELEASE COMPLETE TRANSPORT CHANNEL RECONFIGURATION COMPLETE UTRAN MOBILITY INFORMATION CONFIRM
	 The Value/remark for the IE 'Radio bearer uplink ciphering activation time' is not correct (i.e. not in line with TS 25.331) for the following default messages in TS 34.108 section 9.1.1. RADIO BEARER SETUP COMPLETE
	RADIO BEARER RELEASE COMPLETE
	The existing test cases have been considered and it is only the case with RADIO BEARER SETUP of an RLC-TM that is based on the Value/remark for IE 'COUNT-C activation time' in the default message. The other existing test cases implies that either the presence of these IEs is not of relevance or there is a specific message content information (see the Physical channel reconfiguration test case for hard handover to another frequency, section 8.2.6.37 in TS 23.123-1).

San Antonio, US, 10th – 14th February 2003 3GPP TSG- T1 SIG Meeting #26 San Antonio, US, 10th – 14th February 2003

3GPP TSG- T1 Meeting #18 San Antonio, US, 10th – 14th February 2003

Tdoc **∺***T1-030053*

Tdoc **#**T1S030113

CR-Form-v7

Summary of change: ೫	 The IE "COUNT-C activation time" is marked as "Not checked" fo rthe following messages in clause 9.1.1: a. PHYSICAL CHANNEL RECONFIGURATION COMPLETE b. RADIO BEARER SETUP COMPLETE
	c. RADIO BEARER RECONFIGURATION COMPLETE d. RADIO BEARER RELEASE COMPLETE e. TRANSPORT CHANNEL RECONFIGURATION COMPLETE f. UTRAN MOBILITY INFORMATION CONFIRM
	 The IE "Radio bearer uplink ciphering activation time" is marked as "Not checked" in the following messages in clause 9.1.1:
	a. RADIO BEARER SETUP COMPLETE b. RADIO BEARER RELEASE COMPLETE
	 RADIO BEARER SETUP COMPLETE message: Changed the condition for when the IE "COUNT-C activation time" should be included
Consequences if % not approved:	Default messages not consistent with core specifications.
Clauses affected: #	9.1.1
Other specs ℜ affected:	Y N X Other core specifications X Test specifications X 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 <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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 within Clause 9.1.1>

Contents of PHYSICAL CHANNEL RECONFIGURATION COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Checked to see if it's set to identical value of the same IE in the downlink PHYSICAL CHANNEL
	RECONFIGURATION message
Integrity check info	The presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If integrity protection is indicated to be
	active, this IE shall be present with the values of the sub
	IEs as stated below. Else, this IE and the sub-IEs shall
	be absent.
 Message authentication code 	This IE is checked to see if it is present. The value is
DDO M	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
Liplink integrity protection estivation info	used by SS to compute the XMAC-I value.
Uplink integrity protection activation info CHOICE mode	FDD
COUNT-C activation time	Not checked 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	Not checked
Uplink counter synchronisation info	Not checked

Contents of RADIO BEARER SETUP COMPLETE message: AM

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

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

Contents of RADIO BEARER RELEASE COMPLETE message: AM

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

Contents of TRANSPORT CHANNEL RECONFIGURATION COMPLETE message: AM

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

Contents of UTRAN MOBILITY INFORMATION CONFIRM message: AM

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

3GPP TSG- T1 SIG Meeting #25 **Tdoc #T1S030174** San Antonio, US, 10th – 14th February 2003 CR-Form-v7 CHANGE REQUEST Ħ Current version: 3,10,0 [#] 34.108 CR 190 ж жrev For **HELP** on using this form, see bottom of this page or look at the pop-up text over the **#** symbols. ME X Radio Access Network UICC apps ₩ Core Network Proposed change affects: CR to 34.108 R99; Correction to default SECURITY MODE COMMAND message Title: æ Source: H Ericsson Work item code: # Date: # 09/02/2003 ж F Category: Release: X R99 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 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) (Release 4) Detailed explanations of the above categories can Rel-4 be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6) Reason for change: # Correction to default SECURITY MODE COMMAND message Summary of change: # Clause 9.1.1:

 Changed commnet to the IE "Message authentication code". The value should not be arbitrary selected by the SS but instead be set to MAC-I (computed by the SS).

not approveu.	
Clauses affected:	ដ 9.1.1
Other specs affected:	Y N X Other core specifications # X Test specifications # X O&M Specifications #
Other comments:	ж

How to create CRs using this form:

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Incorrect default message.

Consequences if

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

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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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

437

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 MAC-I value
	computed by the SS.
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	, ,
- Ciphering algorithm capability	
- UEA0	If the UE has indicated support for ciphering algorithm
	UEA0 in the IE "security capability" in the RRC
	CONNECTION SETUP COMPLETE message, this IE is
	set to TRUE.
- UEA1	If the UE has indicated support for ciphering algorithm
	UEA1 in the IE "security capability" in the RRC
	CONNECTION SETUP COMPLETE message, this IE is
	set to TRUE.
- Spare	Spare 2-15 = FALSE
- Integrity protection algorithm capability	000000000000010B (UIA1)
- UIA1	TRUE
- Spare	Spare 0 and Spare 2-15 = FALSE
Ciphering mode info	This presence of this IE is dependent on IXIT statements in
	TS 34.123-2. If ciphering is indicated to be active, this IE
	present with the values of the sub IEs as stated below.
	Else, this IE is omitted.
- Ciphering mode command	Start/restart
- Ciphering algorithm	UEA0 or UEA1. The indicated algorithm must be one of the
	algorithms supported by the UE as indicated in the IE
	"security capability" in the RRC CONNECTION SETUP
	COMPLETE message.
- 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
integrity protection mode into	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 algorithm	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	CS or PS
UE system specific security capability	Not Checked
or system specific security capability	

San Antonio, US, 10th – 14th February 2003 3GPP TSG- T1 SIG Meeting #25 Tdoc #T1S030204 San Antonio, US, 10th – 14th February 2003 CR-Form-v7 CHANGE REQUEST ж Current version: 3,10,0 [#] 34.108 CR 192 ж жrev For **HELP** on using this form, see bottom of this page or look at the pop-up text over the *x* symbols. ME X Radio Access Network Proposed change affects: UICC apps₩ Core Network Title: CR to 34.108 R99; Addition of option for UL CM only in default reference CM patterns æ Ericsson Source: ж Work item code: # Date: # 06/02/2003 ж F Category: Release: X R99 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) (Release 1996) R96 **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) (Release 1998) R98 **D** (editorial modification) R99 (Release 1999) (Release 4) Detailed explanations of the above categories can Rel-4 be found in 3GPP TR 21.900. Rel-5 (Release 5) Rel-6 (Release 6) Reason for change: # Option for UL CM only is missing in default reference CM patterns Summary of change: # Tables 6.8.1, 6.8.2, 6.8.3, 6.8.4, 6.8.5, 6.8.6: Added option for UL CM only case. **Consequences** if **#** CM pattern for UL CM only case not defined. not approved: Clauses affected: **₩** 6.8

Tdoc # T1-030057

How to create CRs using this form:

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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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

6.8 Compressed Mode Parameters

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

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

6.8.1 Single compressed mode pattern

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

6.8.1.1 Inter Frequency FDD measurement

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	
TGPL1 (Transmission Gap Pattern	3	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & UL or DL	32 configurations possible.
		DL, UL or both DL and UL&
		UL/DL
UL compressed mode method	SF/2	
DL compressed mode method	SF/2	
Scrambling code change	No	
RPP (Recovery period power control	0	
mode)		
ITP (Initial transmission power control	0	
mode)		

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

6.8.1.2 Inter Frequency TDD measurement

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	10	
Number)		
TGL1 (Transmission Gap Length 1)	10	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	
TGPL1 (Transmission Gap Pattern	11	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & UL-or DL	32 configurations possible.
		DL, UL or both DL and UL&
		UL/DL
UL compressed mode method	SF/2	
DL compressed mode method	Puncturing	
Scrambling code change	No	
RPP (Recovery period power control	0	
mode)		
ITP (Initial transmission power control	0	
mode)		

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

6.8.1.3 Inter RAT measurement (GSM - Carrier RSSI)

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

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

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

6.8.1.4 Inter RAT measurement (GSM – Initial BSIC Identification)

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

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	
TGPL1 (Transmission Gap Pattern	8	
Length)		
TGPL2 (Transmission Gap Pattern	-	Only one pattern in use.
Length)		
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & UL-or DL	32 configurations possible.
		DL, UL or both DL and UL&
		UL/DL
UL compressed mode method	SF/2	
DL compressed mode method	SF/2	
Scrambling code change	No	
RPP (Recovery period power control	0	
mode)		
ITP (Initial transmission power control	0	
mode)		

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

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

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

Parameter	Value	Note
TGSN (Transmission Gap Starting Slot	4	
Number)		
TGL1 (Transmission Gap Length 1)	7	
TGL2 (Transmission Gap Length 2)	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	
TGPL1 (Transmission Gap Pattern	8	
Length)		Only and nothing in your
TGPL2 (Transmission Gap Pattern Length)	-	Only one pattern in use.
TGCFN (Transmission Gap Connection	(Current CFN + (256 –	
Frame Number):	TTI/10msec))mod 256	
UL/DL compressed mode selection	DL, UL or DL & UL-or DL	<u>3</u> ² configurations possible.
		DL, UL or both DL and UL-&
		UL/DL
UL compressed mode method	SF/2	
DL compressed mode method	SF/2	
Scrambling code change	No	
RPP (Recovery period power control	0	
mode)		
ITP (Initial transmission power control	0	
mode)		

6.8.2 Multiple compressed mode patterns

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

6.8.2.1 Inter RAT measurement GSM

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

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

Parameter	GSM Carrier RSSI	GSM Initial BSIC identification	GSM BSIC re- confirmation	Note
TGSN (Transmission Gap Starting Slot Number)	4	4	4	
TGL1 (Transmission Gap Length 1)	7	7	7	
TGL2 (Transmission Gap Length 2)	-	-	-	Only one gap in use.
TGD (Transmission Gap Distance)	0	0	0	
TGPL1 (Transmission Gap Pattern Length)	12	8	8	
TGPL2 (Transmission Gap Pattern Length)	-	-	-	Only one pattern in use.
TGCFN (Transmission Gap Connection Frame Number):	(Current CFN + (252 – TTI/10msec)) mod 256	(Current CFN + (254 – TTI/10msec)) mod 256	(Current CFN + (250 – TTI/10msec)) mod 256	Defined by higher layers
UL/DL compressed mode selection	<u>DL, UL or</u> DL & UL -or DL	<u>DL, UL or</u> DL & UL -or DL	<u>DL, UL or</u> DL & UL -or DL	<u>3</u> ² configurations possible. DL <u>UL</u> or both DL and UL-& UL/DL
UL compressed mode method	SF/2	SF/2	SF/2	
DL compressed mode method	SF/2	SF/2	SF/2	
Scrambling code change	No	No	No	
RPP (Recovery period power control mode)	0	0	0	
ITP (Initial transmission power control mode)	0	0	0	

3GPP TSG T1 #18

3GPP TSG T1/SIG #27

Tdoc **#**T1-030059 Tdoc **#**T1S030147

San Antonio, Texas, USA, 10-14 Feb 2003

	CHANGE REQUEST	CR-Form-v7
ж <mark>а с</mark>	8 <mark>4.108</mark> CR 194 #rev - ^{# C}	Current version: 3.10.0 [#]
For <u>HELP</u> on usir	ng this form, see bottom of this page or look at the	pop-up text over the X symbols.
Proposed change aff	fects: UICC apps ೫ ME Radio Acc	cess Network Core Network
Title: ж ।	Introduction of a Reference RB configuration of the	RMC for BTFD test.
Source: ೫ I	Rohde & Schwarz	
Work item code: #	TEI	Date: ೫ <mark>05/02/2003</mark>
D	 F Ise <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) etailed explanations of the above categories can e found in 3GPP <u>TR 21.900</u>. 	Release: #R99Use one of the following releases:2(GSM Phase 2)R96R97(Release 1996)R97R98(Release 1997)R98R99Release 1999)Rel-4Rel-5(Release 6)
Reason for change:	 RB reference configuration for the RMC is not of Detection tests 	defined for Blind Transport Format
Summary of change:	* A reference configuration for BTFD testing is ac Note that this document was originally presente adds 2 more TFCs to the configuration.	
Consequences if not approved:	* Ambiguous results if different configurations are	e used in test systems.
Clauses affected:	₩ 9.2.1	
Other specs Affected:	YN%XXOther core specificationsXTest specifications	

Other comments: ೫

How to create CRs using this form:

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

X O&M Specifications

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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

9.2 Default Message Contents for RF

This clause contains the default values of common messages for RF test. The parameters of the UL/DL reference measurement channel 12.2kbps, the DL reference measurement channel for BTFD, UE test loop mode 1 without Dummy DCCH transmission and UE test loop mode 2 with Dummy DCCH transmission are set to default message contents.

9.2.1 Default Message Contents for RF (FDD)

New Section

Contents of RADIO BEARER SETUP message: BTFD RMC

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

Information Element	Value/remark
- 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	ctfc6Bit
- ctfc6Bit	22
- ctfc6	0
<u>-powerOffsetInformation(OP)</u>	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	11
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	1
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	12
-powerOffsetInformation(OP)	
-gainFactorInformation	SignalledGainFactors
-modeSpecificInfo	Fdd
-fdd	
<u>- Gain factor ßc</u>	8
- Gain factor ßd	<u>5</u>
- Reference TFC ID	0
- ctfc6	2
-powerOffsetInformation(OP)	<u> </u>
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	
- ctfc6	13
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	3
<u>-powerOffsetInformation(OP)</u>	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	<u>≚</u> 14
<u>-powerOffsetInformation(OP)</u>	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	4
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	15
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	5
<u>-powerOffsetInformation(OP)</u>	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	<u><u>u</u> 16</u>
<u>-powerOffsetInformation(OP)</u>	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	6
-powerOffsetInformation(OP)	<u> </u>
-gainFactorInformation	ComputedGainFactors

Information Element	Value/remark
- Reference TFC ID	0
- ctfc6	<u>₹</u> 17
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	7
<u>-powerOffsetInformation(OP)</u>	
-gainFactorInformation	<u>ComputedGainFactors</u>
- Reference TFC ID	0
- ctfc6	18
- <u>ctico</u> -powerOffsetInformation(OP)	10
	ComputedQainEastar
<u>-gainFactorInformation</u>	ComputedGainFactors
- Reference TFC ID	0
<u>- ctfc6</u>	8
<u>-powerOffsetInformation(OP)</u>	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
<u>- ctfc6</u>	<u>19</u>
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	<u>0</u>
<u>- ctfc6</u>	<u>9</u>
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	<u>0</u>
<u>- ctfc6</u>	<u>20</u>
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	<u>0</u>
<u>- ctfc6</u>	<u>10</u>
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
- ctfc6	21
-powerOffsetInformation(OP)	
-gainFactorInformation	ComputedGainFactors
- Reference TFC ID	0
Added or Reconfigured UL TrCH information	
-ul-AddReconfTransChInfoList	1
- Uplink transport channel type	DCH
- UL Transport channel identity	1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
-DedicatedDynamicTF-Info	
RLC size	256
-numberOfTbSizeList	
-NumberOfTransportBlocks	Zero
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
<u>RLC size</u>	216
-numberOfTbSizeList	0.00
-NumberOfTransportBlocks	One
<u>RLC size</u>	<u>171</u>
- Choice Logical Channel List	ALL
-numberOfTbSizeList	
-NumberOfTransportBlocks	<u>One</u>
- Choice Logical Channel List	ALL
RLC size	160
-numberOfTbSizeList	
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	146
<u>-numberOfTbSizeList</u>	
-NumberOfTransportBlocks	000
	one

Information Element	Value/remark
- Choice Logical Channel List	ALL
<u>RLC size</u>	130
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	115
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	107
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	51
-numberOfTbSizeList	
-NumberOfTransportBlocks	<u>one</u>
- Choice Logical Channel List	ALL
RLC size	<u>12</u>
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
-Semistatic Transport Format Information	
Transmission Time interval	20 mg
-Transmission Time interval	<u>20 ms</u>
-channelCodingType	Convolutional
-convolutional	<u>1/3</u>
- Rate matching attribute	<u>256</u>
<u>- CRC size</u>	<u>0</u>
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode - CHOICE DL parameters	Explicit
- DL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Complete reconfiguration
- TFCS complete reconfigure information	
- CHOICE CTFC Size	Ctfc6Bit
- ctfc6Bit	20
<u>- ctfc6</u>	<u>9</u>
<u>- ctfc6</u>	<u>19</u>
<u>- ctfc6</u>	<u>10</u>
<u>- ctfc6</u>	1
<u>- ctfc6</u>	11
- ctfc6	2
<u>- ctfc6</u>	<u>12</u> <u>3</u>
<u>- ctfc6</u> - ctfc6	<u>3</u> <u>13</u>
<u>- ctfc6</u>	<u>4</u>
<u>- ctfc6</u>	<u>4</u> <u>14</u>
<u>- ctfc6</u>	5
<u>- ctfc6</u>	<u>15</u>
<u>- ctfc6</u>	<u>6</u>
<u>- ctfc6</u>	<u>16</u>
<u>- ctfc6</u>	<u>7</u>
<u>- ctfc6</u>	<u>17</u>
<u>- ctfc6</u>	8
<u>- ctfc6</u>	18
Deleted DL TrCH information	Not Present
Added or Reconfigured DL TrCH information	
-dl-AddReconfTransChInfoList(OP)	
 Downlink transport channel type 	DCH

Information Element	Value/remark
- DL Transport channel identity	6
- CHOICE DL parameters	Explicit
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
-DedicatedDynamicTF-Info	
RLC size	<u>244</u>
-numberOfTbSizeList	
-NumberOfTransportBlocks	<u>One</u>
- Choice Logical Channel List	ALL
RLC size	<u>204</u>
-numberOfTbSizeList	
-NumberOfTransportBlocks	<u>One</u>
RLC size	<u>159</u>
- Choice Logical Channel List	ALL
-numberOfTbSizeList	
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	148
-numberOfTbSizeList	
-NumberOfTransportBlocks	One
- Choice Logical Channel List	ALL
RLC size	134
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	118
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	103
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	95
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	39
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
RLC size	0
-numberOfTbSizeList	
-NumberOfTransportBlocks	one
- Choice Logical Channel List	ALL
-Semistatic Transport Format Information	
-Transmission Time interval	20 ms
-channelCodingType	Convolutional
<u>-convolutional</u>	<u>1/3</u>
- Rate matching attribute	<u>256</u>
- CRC size	<u>12</u>
<u>- DCH quality target</u>	
- BLER Quality value	-2.0
- Transparent mode signalling info	Not Present
Frequency info	Not Present
Maximum allowed UL TX power	33 dBm
CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	0
- DPCCH power offset - PC Preamble	0 1 frame
- SRB delay	7 frames
- SRB delay - Power Control Algorithm	Algorithm1

Information Element	Value/remark
- TPC step size	1dB
- Scrambling code type	Long
- Scrambling code number	0
- Number of DPDCH	1
- spreading factor	64
- TFCI existence	TRUE
- Number of FBI bit	Not Present(0)
- Puncturing Limit	1
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present(0)
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	FDD
- Timing indicator	Maintain
- CFN-targetSFN frame offset	Not Present
- Downlink DPCH power control information	
- DPC mode	0 (single)
- CHOICE mode	FDD
- Power offset P _{Pilot-DPDCH}	0
- DL rate matching restriction information	Not Present
- Spreading factor	128
- Number of bits for Pilot bits(SF=128,256)	4
- Fixed or Flexible Position	Fixed
- TFCI existence	FALSE
- DPCH compressed mode info	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Not Present
Downlink information for each radio link list	
- Primary CPICH info	Not Present
- Primary scrambling code	100
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value Default DPCH Offset Value (as currently
	stored in SS) mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	0
- Spreading factor	128
- Code number	Set to value stored in SS
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

		CHANGE		JEST		CR-Form-v7
ж	<mark>34.108</mark>	CR <mark>196</mark>	ж rev	- #	Current vers	^{ion:} <mark>3.10.0</mark> [≇]
For <u>HELP</u> on usi	ing this for	m, see bottom of th	is page or l	ook at the	pop-up text	over the X symbols.
Proposed change af	fects: L	IICC appsℋ	MEX	Radio Ac	cess Networ	k Core Network
Title: ೫	CR to 34.1	108 R99; Update of	the RRC c	onnection	request mes	ssages
Source: ೫	T1 SIG					
Work item code: Ж					<i>Date:</i> ೫	07/02/2003
D	Jse <u>one</u> of t F (corr A (corr B (add C (fund D (edit Detailed exp	he following categorie ection) responds to a correctivition of feature), ctional modification of orial modification) lanations of the above 3GPP <u>TR 21.900</u> .	on in an earl feature)	ier release,	2	R99 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 4) (Release 5) (Release 6)
Reason for change:		has defined an add cation TS5.331. Thi				
Summary of change.	: ೫ Updat	e of the specificatio	n according	g to the R	AN CR 1758	
Consequences if not approved:	# Defau	ult messages not co	onsistent wi	h core sp	ecification T	S25.331
Clauses affected:	೫ <mark>7.1.2</mark>	.4.2, 9.1.1 and 9.1.2	2			
Other specs affected:	X	Other core specific Test specifications O&M Specification		ж		
Other comments:	ж					

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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 within Clause 7.1.2.4.2>

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	
C 1			REQUEST	
UE information elemen	its			
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	
>UE Specific Behaviour	Information 1 idle		This IE will not be checked by	
			default, but in specific test	
			<u>case</u>	
Measurement informat	ion elements			
Measured results on RA	СН		Not checked	

<End of modified section>

<Start of next modified section 9.1.1>

Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark
Message Type	
Initial UE identity	
- CHOICE UE id type	
- TMSI and LAI (GSM-MAP)	Set to the UE's TMSI and LAI.
Establishment cause	To be checked against requirement if specified
Protocol error indicator	FALSE
UE Specific Behaviour Information 1 idle	This IE will not be checked by default, but in specific test
	case
Measured results on RACH	To be checked against requirement if specified

Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark
Message Type	
Initial UE identity	
- CHOICE UE id type	
- IMSI (GSM-MAP)	Set to the UE's IMSI (GSM-MAP) or TMSI.
Establishment cause	To be checked against requirement if specified
Protocol error indicator	FALSE
UE Specific Behaviour Information 1 idle	This IE will not be checked by default, but in specific test
	case
Measured results on RACH	Not checked

3GPP TSG- T1 Meeting #18 San Antonio, Texas, US, 10th-14th February 2003

T1-030131

	CR-Form-v3
¥	34.108 CR 199 [#] rev - [#] Current version: 3.10.0 [#]
For <u>HELP</u> on L	ising this form, see bottom of this page or look at the pop-up text over the $#$ symbols.
Proposed change	affects: 第 (U)SIM ME/UE X Radio Access Network Core Network
Title: #	Update of default parameters for 1 to 8 cell environments (TDD), clause 6.1.4
Source: #	Siemens AG
Work item code: भ्र	Date: 発 2 nd February 2003
Category: #	F Release: # R99
	Use one of the following categories:Use one of the following releases:F (essential 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
Reason for change	e: # Reflect the update of SIBs done for FDD mode in the parameters for 1 to 8 cell environments
Summary of chang	 Contents of System Information Block type 11 for cells (TDD) included References to clause 6.10 are corrected. Clause 6 is included to specify in only one reference 3.84 Mcps option and 1.28 Mcps option.
Consequences if not approved:	# Test cases included in TS34.123-1 do not work properly.
Clauses affected:	<mark>策 6.1.4</mark>
Other specs affected:	#Other core specifications#XTest specificationsO&M Specifications
Other comments:	% Reference: T1-020711 (CR approved at T1#17 meeting)

6.1.4 Default parameters for 1 to 8 cell environments

Default settings for cell No.1 (FDD):

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

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

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

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

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

Default settings for cell No.1 (TDD):

Downlink input level	Reference clause 6. 10 Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6.10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	0

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

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

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

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

Cell No.2

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

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

Default settings for cell No.2 (FDD):

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

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

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

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
·	

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

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

Cell No.3

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

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

Default settings for cell No.3 (FDD):

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

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

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

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

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

International and the second s	
- Intra-frequency measurement system	
<u>information</u>	
<u></u>	
 New intra-frequency cells 	
- Intra-frequency cell id	<u>3</u>
<u>- Cell info</u>	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.3
	(TDD)" in clause 6.1.4
- Intra-frequency cell id	
- Cell info	Same content as specified for Intra-frequency cell id=2
	(neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b
	with the exception that value for Primary scrambling code
	shall be according to clause titled "Default settings for cell
	No.1 (TDD)" in clause 6.1.4
- Intra-frequency cell id	2
- Cell info	$\frac{2}{5}$ Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	7
- Cell info	$\frac{r}{Same}$ content as specified for Intra-frequency cell id=7 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
Intro frequency cell id	
<u>- Intra-frequency cell id</u> - Cell info	<u>8</u> Some content of encoified for later frequency call id. 9 in
	Same content as specified for Intra-frequency cell id=8 in SIB11 for Cell 1 in sub-clause 6.1.0b
	SIBIT for Cell 1 in sub-clause 6.1.00
- Inter-frequency measurement system information	
mormation	
Alexa interation and a state of the	
- New inter-frequency cells	
- Inter frequency cell id	$\frac{4}{2}$
 Frequency info 	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
<u> </u>	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
 Inter frequency cell id 	5
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	<u>"frequency info" in the list.</u>
<u> </u>	Same content as specified for Inter-frequency cell id=5 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
 Inter frequency cell id 	<u>6</u>
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=6 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b

Cell No.4

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

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

Default settings for cell No.4 (FDD):

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

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

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

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

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

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

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

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

Cell No.5

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

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

Default settings for cell No.5 (FDD):

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

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

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

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

Default settings for cell No.5 (TDD):

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

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

 Intra-frequency measurement system 	
information	
<u></u>	
- New intra-frequency cells	
- Intra-frequency cell id	5
- Cell info	
<u> </u>	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.5
	(TDD)" in clause 6.1.4
Intro frequency cell id	4
- Intra-frequency cell id	
<u>- Cell info</u>	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.4 (TDD)" in
	clause 6.1.4
	<u>Clause 6.1.4</u>
 Intra-frequency cell id 	<u>6</u>
- Cell info	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clouge titled "Default acting for call No. C (TDD)" in
	to clause titled "Default settings for cell No.6 (TDD)" in
	<u>clause 6.1.4</u>
- Inter-frequency measurement system	
information	
Information	
<u></u>	
 New inter-frequency cells 	
- Inter-frequency cell id	1
- Frequency info	
	Deference to table 6.1.7 for Call 1
- UARFCN downlink(Nt)	Reference to table 6.1.7 for Cell 1
<u>- Cell info</u>	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.1 (FDD)" in
	<u>clause 6.1.4</u>
 Inter-frequency cell id 	2
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
	Trequency into in the list.
<u> - Cell info</u>	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.2 (TDD)" in
	clause 6.1.4
In the free second second 11.1.1	
 Inter-frequency cell id 	3
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.3 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	7
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
<u>- Cell info</u>	Same content as specified for Inter-frequency cell id=4 in
	Old the content as specified for inter-frequency cell (0=4 II)
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.7 (TDD)" in
	clause 6.1.4
Interview and a 10 to	
 Inter-frequency cell id 	<u>8</u>
 Frequency info 	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.

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

Cell No.6

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

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

Default settings for cell No.6 (FDD):

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

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

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

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

Default settings for cell No.6 (TDD):

1	Downlink input level Uplink output power PCCPCH/PCPICH carrier number	Reference clause 6 .10 Parameter Set Minimum supported by the UE's power class. Reference clause 6 .10 Parameter Set	
I	Cell Channel Description - Primary CCPCH info		
	- Cell parameters ID	119	

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

 Intra-frequency measurement system 	
information	
<u></u>	
- New intra-frequency cells	
- Intra-frequency cell id	<u>6</u>
- Cell info	Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.6
	(TDD)" in clause 6.1.4
- Intra-frequency cell id	4
- Cell info	Ξ Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.4 (TDD)" in
	clause 6.1.4
- Intra-frequency cell id	5
<u> - Cell info</u>	Same content as specified for Intra-frequency cell id=2 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.5 (TDD)" in
	clause 6.1.4
Later for more service and services	
 Inter-frequency measurement system 	
information	
- New inter-frequency cells	
- Inter-frequency cell id	1
- Frequency info	<u> </u>
- UARFCN downlink(Nt)	Reference to table 6.1.7 for Cell 1
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.1 (TDD)" in
	<u>clause 6.1.4</u>
 Inter-frequency cell id 	2
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	Same content as specified for Inter-frequency cell lu=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.2 (TDD)" in
	clause 6.1.4
- Inter-frequency cell id	3
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.3 (TDD)" in
	<u>clause 6.1.4</u>
 Inter-frequency cell id 	<u>7</u>
- Frequency info	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.
Collinfo	
<u> - Cell info</u>	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clause 6.1.0b with the exception
	that value for Primary scrambling code shall be according
	to clause titled "Default settings for cell No.7 (TDD)" in
	clause 6.1.4
Inter frequency cell id	<u>8</u>
- Inter-frequency cell id	
 Frequency info 	Not Present
	Absence of this IE is equivalent to value of the previous
	"frequency info" in the list.

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

Cell No.7

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

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

Default settings for cell No.7 (FDD):

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

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

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

Default settings for cell No.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	

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

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

Cell No.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

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

- Intra-frequency measurement system	
information	
····	
- New intra-frequency cells	0
- Intra-frequency cell id - Cell info	8 Some content as experified for Intro frequency cell id. 1
	Same content as specified for Intra-frequency cell id=1 (serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.8
- Intra-frequency cell id	(FDD)" in clause 6.1.4
- Cell info	Same content as specified for Intra-frequency cell id=2
	(neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with the exception that value for Primary scrambling code shall be according to clause titled "Default settings for cell No.1 (FDD)" in clause 6.1.4
- Intra-frequency cell id	2
- Cell info	Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b
 Intra-frequency cell id 	3
- Cell info	Same content as specified for Intra-frequency cell id=3 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	7
- Cell info	Same content as specified for Intra-frequency cell id=7 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-frequency measurement system information	
- New inter-frequency cells	
- Inter frequency cell id	4
- Frequency info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=4 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id	5
- Frequency info	Same content as specified for Inter-frequency cell id=5 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=5 in SIB11 for Cell 1 in sub-clasue 6.1.0b
- Inter frequency cell id	6
- Frequency info	Same content as specified for Inter-frequency cell id=6 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=6 in SIB11 for Cell 1 in sub-clasue 6.1.0b

Default settings for cell No.8 (TDD):

Downlink input level	Reference clause 6 .10 -Parameter Set
Uplink output power	Minimum supported by the UE's power class.
PCCPCH/PCPICH carrier number	Reference clause 6 .10 Parameter Set
Cell Channel Description	
- Primary CCPCH info	
- Cell parameters ID	127
· · · · ·	
Contents of System Information Block type	e 11 for cell No 8 (TDD)
 Intra-frequency measurement system 	
information	
- New intra-frequency cells	0
<u>- Intra-frequency cell id</u> - Cell info	8 Same content as specified for Intra-frequency cell id=1
	(serving cell) in SIB11 for Cell 1 in sub-clause 6.1.0b with
	the exception that value for Primary scrambling code shall
	be according to clause titled "Default settings for cell No.8
	(TDD)" in clause 6.1.4
- Intra-frequency cell id	1
- Cell info	Same content as specified for Intra-frequency cell id=2
	(neigbour cell) in SIB11 for Cell 1 in sub-clause 6.1.0b
	with the exception that value for Primary scrambling code
	shall be according to clause titled "Default settings for cell
	No.1 (TDD)" in clause 6.1.4
- Intra-frequency cell id	$\frac{2}{2}$
<u>- Cell info</u>	Same content as specified for Intra-frequency cell id=2 in SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	
- Cell info	Same content as specified for Intra-frequency cell id=3 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
- Intra-frequency cell id	7
- Cell info	Same content as specified for Intra-frequency cell id=7 in
	SIB11 for Cell 1 in sub-clause 6.1.0b
- Inter-frequency measurement system information	
Information	
- New inter-frequency cells	
- Inter frequency cell id	4
- Frequency info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
- Cell info	Same content as specified for Inter-frequency cell id=4 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
 Inter frequency cell id 	<u>5</u>
- Frequency info	Same content as specified for Inter-frequency cell id=5 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
<u> </u>	Same content as specified for Inter-frequency cell id=5 in
Inter frequency cell id	SIB11 for Cell 1 in sub-clasue 6.1.0b
 Inter frequency cell id Frequency info 	6 Same content as specified for Inter-frequency cell id=6 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b
Cell info	Same content as specified for Inter-frequency cell id=6 in
	SIB11 for Cell 1 in sub-clasue 6.1.0b

3GPP TSG- T1 Meeting #18 San Antonio, Texas, US, 10th-14th February 2003

T1-030209

CHANGE REQUEST					
ж	34.108 CR 201 # rev - # Current version: 3.10.0 #				
For <u>HELP</u> on us	sing this form, see bottom of this page or look at the pop-up text over the $#$ symbols.]			
Proposed change a	affects: ೫ (U)SIM ME/UE X Radio Access Network Core Network				
Title: #	Update of Multi-cell environment for default radio conditions (TDD)				
Source: ж	Siemens AG				
Work item code: ℜ	Date: ೫ 2 nd February 2003				
Category: Ж	F Release: # R99				
Use one of the following categories:Use one of the following releases:F (essential 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 canREL-4(Release 4)be found in 3GPP TR 21.900.REL-5(Release 5)					
Reason for change	e: 発 Reflecting the update of SIBs done for FDD mode				
Summary of change: # Cell 4 is considered in table 6.1.7 (default settings for serving cell and suitable neighbour cell in multi-cell environment) The change is included to show both, intra- and inter-frequency neighbour cells.					
Consequences if not approved:	# Test cases included in TS34.123-1 do not work properly.				
Clauses affected:	策 6.1.6				
Other specs affected:	% Other core specifications % X Test specifications O&M Specifications				
Other comments:	器 Reference: T1-020711 (CR approved at T1#17 meeting)				

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

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

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

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

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

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

Table 6.1.8: Default settings for a non-suitable cell

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

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

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

3GPP TSG-T1/SIG Meeting #27 San Antonio, February 10th-14th, 2003

		CHANGE REQUEST		CR-Form-v5.1
¥		34.108 CR 203	irrent versi	^{on:} <mark>3.10.0</mark> [≇]
For <u>HELP</u> of	n u:	sing this form, see bottom of this page or look at the po	p-up text	over the X symbols.
Proposed chang	ge a	affects: 第 (U)SIM ME/UE X Radio Acces	s Network	Core Network
Title:	Ħ	CR to 34.108 R99; Modification to Generic Registrati T1S030122)	on Proced	lures (revision of
Source:	ж	Anite Telecoms		
Work item code	:¥	TEI	<i>Date:</i> ೫	30/1/2003
Category:	ж		2 R96 R97 R98 R99 REL-4	R99 the following releases: (GSM Phase 2) (Release 1996) (Release 1997) (Release 1998) (Release 1999) (Release 4) (Release 5)

Reason for change:	Defined Generic Registration procedures do not adequately describe the procedure to be used by a UE in Operation Mode A in a simulated network operating in Network Operation Mode II
Summary of change:	# Add description of parallel procedure to be used in this situation
Consequences if	# Test Cases covering this situation may not test UEs correctly
not approved:	
Clauses affected:	¥ 7.2.2
Other specs	ℋ Other core specifications 米
affected:	Test specifications
	O&M Specifications
Other comments:	ж

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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. 3

<<Start modified section>>

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.
- [1] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 34.121: "Terminal Conformance Specification; Radio transmission and reception (FDD)".
- [3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [4] 3GPP TS 34.124: "ElectroMagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment".
- [5] 3GPP TS 34.122: "Terminal Conformance Specification; Radio transmission and reception (TDD)".
- [6] 3GPP TS 34.109: "Terminal Logical Test Interface; Special conformance testing functions".
- [8] 3GPP TS 25.214: "Physical layer procedures (FDD)".
- [7] 3GPP TS 25.301 "Radio Interface Protocol Architecture".
- [9] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [10] 3GPP TR 25.990: "Vocabulary".
- [11] 3GPP TS 25.101: "UE Radio transmission and reception (FDD)".
- [12] 3GPP TS 25.102: "UTRA (UE) TDD; Radio transmission and reception".
- [13] 3GPP TS 25.211: "Physical Channels and mapping of Transport Channels onto Physical channels (FDD)".
- [14] 3GPP TS 25.212: "Multiplexing and Channel Coding (FDD)".
- [15] 3GPP TS 23.107: "Quality of Service (QoS) concept and architecture".
- [16] 3GPP TS 26.110: "Codec for Circuit Switched Multimedia Telephony Service; General Description".
- [17] 3GPP TS 29.007: "General requirements on interworking between the Public Land Mobile Network (PLMN) and the Integrated Services Digital Network (ISDN) or Public Switched Telephone Network (PSTN)".
- [18] 3GPP TR 23.910: "Circuit Switched Data Bearer Service".
- [19] Void.
- [20] 3GPP TS 25.104: "UTRA (BS) FDD; Radio Transmission and Reception".

Error! No text of spe	cified style in document.	4	Error! No text of specified style in document.
[21]	3GPP TS 25.105: "UTRA (BS) TD	D; Radio 7	Fransmission and Reception".
[22]	3GPP TS 31.101: "UICC-Terminal	Interface;	Physical and Logical Characteristics".
[23]	3GPP TS 31.102: "Characteristics of	of the USI	M Application".
[24]	3GPP TS 33.102: "3G Security; Sec	curity Arcl	nitecture".
[25]	3GPP TS 33.103: "3G Security; Int	egration G	uidelines".
[26]	3GPP TS 33.105: "3G Security; Cr	yptographi	c Algorithm Requirements".
[27]	3GPP TS 25.224: "Physical layer p	rocedures	(TDD)".
[28]	3GPP TS 25.221: "Physical Channe (TDD)".	els and mag	pping of Transport Channels onto Physical channels
[29]	3GPP TS 25.222: "Multiplexing an	d Channel	Coding (TDD)".
[30]	3GPP TS 25.133: "Requirements for	or support	of radio resource management (FDD)".
[31]	3GPP TS 24.008: "Mobile radio int	erface laye	er 3 specification; Core Network Protocols; Stage 3".

3 Definitions and abbreviations

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7.2 Generic setup procedures

7.2.1 UE Test States for Generic setup procedures

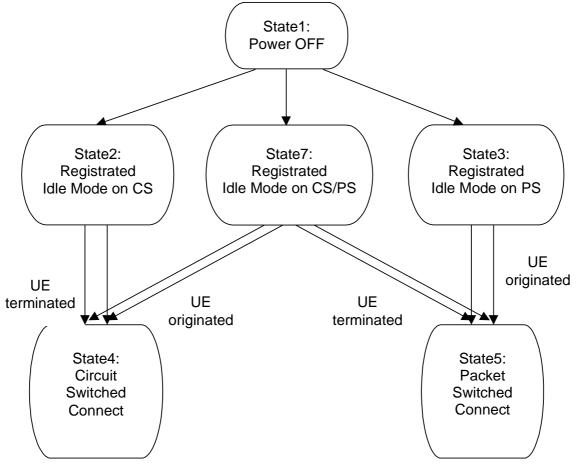


Figure 7.2.1.1: UE Test States for Generic setup procedures

In order that the UE can set up a call in UTRAN, there are a number of procedures to be undertaken in a hierarchical sequence to move between known states. The sequences are shown in figure 7.2.1.1 and the status of the relevant protocols in the UE in the different states are given in table 7.2.1.1.

		RRC	CC	MM	SM	GMM
State1	Power OFF		null	detached	inactive	detached
State2	Registered Idle Mode on CS	idle	null	idle	inactive	detached
State3	Registered Idle Mode on PS	idle	null	detached	inactive	idle
State4	Circuit Switched Connect	connected	active	connected	inactive	same as previous state
State5	Packet Switched Connect	connected	null	same as previous state	active	connected
State7	Registered Idle Mode on CS/PS	idle	null	idle	inactive	idle

7.2.2 Registration of UE

The default procedures required to achieve the changes of state between State 1, in clause 7.2.1, and States 2, 3 and 7 are illustrated in the following sections.

The choice of which procedure to use given a UE supporting packet services is influenced by the Network Mode of Operation being simulated by the SS and by the Operation Mode of the UE, as described in [31] clause 1.7.2.2. Table 7.2.2 shows the appropriate clause number for each combination of these two modes of operation.

Table 7.2.2: Registration Procedures for UEs Supporting Packet Services

Netwo	ork Mode	<u>NMO I</u>	<u>NMO II</u>
<u>UE</u> Mode	PS/CS	<u>7.2.2.3</u>	<u>7.2.2.4</u>
Mode	<u>PS</u>	<u>7.2.2.2</u>	<u>7.2.2.2</u>

7.2.2.1 Registration on CS

7.2.2.1.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.1.2 Definition of system information messages

The default system information messages are used.

7.2.2.1.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
-	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	LOCATION UPDATING REQUEST	MM
6	<	AUTHENTICATION REQUEST	MM
7	>	AUTHENTICATION RESPONSE	MM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	< LOCATION UPDATING ACCEPT		MM
11	>	TMSI REALLOCATION COMPLETE	MM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.1.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7

7.2.2.2 Registration on PS

7.2.2.2.1 Initial condition

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.2.2 Definition of system information messages

The default system information messages are used.

7.2.2.2.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction	Message	Comments
	UE SS		
1	<	SYSTEM INFORMATION (BCCH)	NW Broadcast
2	>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<	RRC CONNECTION SETUP (CCCH)	RRC
4	>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	>	ATTACH REQUEST	GMM
6	<	AUTHENTICATION AND CIPHERING REQUEST	GMM
7	>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<	SECURITY MODE COMMAND	RRC
9	>	SECURITY MODE COMPLETE	RRC
10	<	ATTACH ACCEPT	GMM
11	>	ATTACH COMPLETE	GMM
12	<	RRC CONNECTION RELEASE	RRC
13	>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.2.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.2.3 Registration on CS / PS combined environment

7.2.2.3.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode I, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.3.2 Definition of system information messages

The default system information messages are used.

8

7.2.2.3.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Step	Direction		Message	Comments
	UE	SS		
1	<		SYSTEM INFORMATION (BCCH)	NW Broadcast
2	-	·>	RRC CONNECTION REQUEST (CCCH)	RRC
3	<		RRC CONNECTION SETUP (CCCH)	RRC
4	-	·>	RRC CONNECTION SETUP COMPLETE (DCCH)	RRC
5	-	·>	ATTACH REQUEST	GMM
6	<		AUTHENTICATION AND CIPHERING REQUEST	GMM
7		·>	AUTHENTICATION AND CIPHERING RESPONSE	GMM
8	<		SECURITY MODE COMMAND	RRC
9	-	·>	SECURITY MODE COMPLETE	RRC
10	<		ATTACH ACCEPT	GMM
11	> ATTACH COMPLETE		ATTACH COMPLETE	GMM
12	< RRC CONNECTION REL		RRC CONNECTION RELEASE	RRC
13		·>	RRC CONNECTION RELEASE COMPLETE	RRC

7.2.2.3.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.2.4 Registration on CS / PS non-combined environment

7.2.2.4.1 Initial condition

System Simulator:

- 1 cell operating in network operation mode II, default parameters.

User Equipment:

- The UE set to Operation mode A
- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

7.2.2.4.2 Definition of system information messages

The default system information messages are used.

7.2.2.4.3 Procedure

Registration of UE for SS shall be established under ideal radio conditions as defined in 5. Reference Test Conditions.

Registrations in the CS domain and in the PS domain shall execute independently. The separate procedures shall be as defined in clauses 7.2.2.1 and 7.2.2.2.

The separate registration procedures may occur sequentially or in parallel. If the procedures occur sequentially either the same RRC connection may be used for both, or alternatively a separate RRC connection may be used for each registration procedure.

7.2.2.4.4 Specific message contents

All Specific message contents shall be referred to clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

7.2.3 Call setup

7.2.3.1 Generic call set up procedure for mobile terminating circuit switched calls

7.2.3.1.1 Initial conditions

System Simulator:

- 1 cell, default parameters.

User Equipment:

- The UE shall be operated under normal test conditions.
- The Test-USIM shall be inserted.

<< End of modified section>>

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Summary of change: # The following changes are proposed:

- 1. The default RLC window size for SRB2,3,4 is changed from 128 to 32.
- 2. The Common Radio Bearer configurations used for RLC tests is modified:
 - The TFS for the UM tests with 7 bit Length indicators no longer includes more than 1 TB, thus remaining below the UE capability on 'Maximum sum of number of bits of all transport blocks being received at an arbitrary time instant' of the 32kbps UE class (640 bits). In addition the TTI is updated to 40ms in order to align to the existing UL/DL 8/8kbps RAB.
 - The PDU size for AM tests with 7bit Length indicators is changed from 320 to 128. This allows the current RLC window sizes to be used which limits the impact on the extisting L2 test cases.
 - The RLC PDU size as well as the RLC window size for testing of 15 bit length indicators are unchanged. This implies that only UEs with >50 kbyte RLC buffer memory can be tested with 15 bit length indicators. If this is unacceptable, the RLC window size could potentially be decreased for RLC tests with 15 bit Lls.
 - The L1 parameters are modified since the current values seem incorrect. The values have been confirmed by RAN1 (in LS in T1-030132/R1-

	030199).
Consequences if not approved:	発 L2 testing can not be performed on lower UE classes
Clauses affected:	策 6.11 and 9.1.1
Other specs affected:	Y N % X Other core specifications % X Test specifications X 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 <u>http://www.3gpp.org/specs/CR.htm</u>. 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 <u>ftp://ftp.3gpp.org/specs/</u> 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.

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6.11 Common Radio Bearer configurations for other test purposes

The common radio bearer configurations are used for functional testing of various UE functions. Only common configurations that are used by multiple test cases and are not covered by the reference radio bearer configurations in clause 6.10 are specified in the present clause. Radio bearer configurations only used by a single test case are specified in the actual test case itself.

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

6.11.1 Unacknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

This configuration is based on the Interactive or background / UL: $\underline{864}$ DL $\underline{864}$ kbps / PS RAB + UL:3.4 DL 3.4 kbps SRBs for DCCH (see TS 34.108 clause 6.10.2.4.1.2 $\underline{3a6}$) with the transport channels parameters of the RAB and TFCS defined as followsed:

ſ	Higher		RAB/Signalling RB	RAB
	layer			
	RLC	Logical channel type		DTCH
		RLC mode		UM
		Payload siz	es, bit	328
		Max data ra	ate, bps	<u>8200</u> 65600
		UMD PDU I	header, bit	8
Ī	MAC	MAC header, bit		0
		MAC multiplexing		N/A
Ī	Layer 1	TrCH type		DCH
		TB sizes, bit		336
		TFS	TF0, bits	0x336
			TF1, bits	1x336
			TF2, bits	2x336(note)
			TF3, bits	3x336(note)
			TF4, bits	4x336(note)
		TTI, ms		20<u>40</u>
		Coding type		TC <u>CC 1/3</u>
		CRC, bit		16
		Max number of bits/TTI after channel coding		<u>1080</u> 4 236
		Uplink: Max number of bits/radio frame before		<u>270<mark>2118</mark></u>
		rate matchin	ng	
		RM attribute		<u>135-175</u> 130-170
Ē	NOTE: This TFL is not applied to TFS for RLC test cases.			

Transport channel parameters for the Uplink RAB

TFCS

TFCS size	4
TFCS	(<mark>64-8</mark> kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	328
	Max data rate, bps	<u>8200</u> 65600
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
-	TB sizes, bit	336
	TFS TF0, bits	0x336
	TF1, bits	1x336
	TF2, bits	2x336 (note)
	TF3, bits	3x336 (note)
	TF4, bits	4 x336 (note)
	TTI, ms	20 40
	Coding type	<u>CC 1/3</u> TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>1080</u> 4236
	RM attribute	<u>135-175<mark>130-170</mark></u>
NOTE: 7	This TFL is not applied to TFS for RLC test cases.	

TFCS

TFCS size	4
TFCS	(<mark>64-8</mark> _kbps RAB, DCCH)=
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

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

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	1336
	Max data rate, bps	66800
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
_	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4236
	Uplink: Max number of bits/radio frame before	<u>2046</u> 2118
	rate matching	
	RM attribute	130-170

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	UM
	Payload sizes, bit	1336
	Max data rate, bps	66800
	UMD PDU header, bit	8
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
-	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	RM attribute	130-170

6.11.3 Acknowledged Mode Radio Bearer configuration (7 bit Length Indicator)

Transport channel parameters for the Uplink RAB

See clause 6.10.2.4.1.24.1. Note that TF2, TF3, and TF4 are not applied to the TFS for RLC tests, so the TFCS is defined as follows.

TFCS

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

Transport channel parameters for the Downlink RAB

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

TE	22
	80

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

Transport channel parameters for the Uplink RAB

Higher layer	RAB/Signalling RB	RAB
<u>RLC</u>	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	<u>128</u>
	Max data rate, bps	<u>6400</u>
	UMD PDU header, bit	<u>16</u>
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
	TB sizes, bit	144
	TFS 0x144	<u>0x144</u>
	1x144	<u>1x144</u>
	TTI, ms	<u>20</u>
	Coding type	<u>CC 1/3</u>
	CRC, bit	<u>16</u>
	Max number of bits/TTI after channel coding	<u>504</u>
	Uplink: Max number of bits/radio frame before	<u>252</u>
	rate matching	_
	RM attribute	<u>135-175</u>

TFCS

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

Transport channel parameters for the Downlink RAB

<u>Higher</u> layer	RAB/Signalling RB	RAB
<u>RLC</u>	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	<u>128</u>
	Max data rate, bps	<u>6400</u>
	UMD PDU header, bit	<u>16</u>
MAC	MAC header, bit	<u>0</u>
	MAC multiplexing	<u>N/A</u>
Layer 1	TrCH type	DCH
-	TB sizes, bit	144
	TFS 0x144	<u>0x144</u>
	1x144	<u>1x144</u>
	TTI, ms	<u>20</u>
	Coding type	<u>CC 1/3</u>
	CRC, bit	<u>16</u>
	Max number of bits/TTI after channel coding	<u>504</u>
	RM attribute	<u>135-175</u>

<u>TFCS</u>

TFCS size	4
TFCS	<u>(RAB, DCCH)=</u>
	(TF0, TF0), (TF1, TF0), (TF0, TF1), (TF1, TF1)

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

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

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
-	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	Uplink: Max number of bits/radio frame before	<u>2046</u> 2118
	rate matching	
	RM attribute	130-170

Transport channel parameters for the Uplink RAB

Transport channel parameters for the Downlink RAB

Higher layer	RAB/Signalling RB	RAB
RLC	Logical channel type	DTCH
	RLC mode	AM
	Payload sizes, bit	1328
	Max data rate, bps	66400
	AMD PDU header, bit	16
MAC	MAC header, bit	0
	MAC multiplexing	N/A
Layer 1	TrCH type	DCH
-	TB sizes, bit	1344
	TFS TF0, bits	0x1344
	TF1, bits	1x1344
	TTI, ms	20
	Coding type	TC
	CRC, bit	16
	Max number of bits/TTI after channel coding	<u>4092</u> 4 236
	RM attribute	130-170

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<Start of next modified section>

9.1.1 Default RRC Message Contents (FDD)

<Skip until first modified default message>

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

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present(Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	Not present
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	9
Capability update requirement	
 UE radio access FDD capability update 	TRUE
requirement	
 UE radio access TDD capability update 	FALSE
requirement	
- System specific capability update requirement list	Gsm
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	Not present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Not present
- 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)
 MAC logical channel priority 	1
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
 DL DSCH Transport channel identity 	Not Present
 Logical channel identity 	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	

Information Element	Value/remark
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	No discord
- SDU discard mode - MAX DAT	No discard 15
- Transmission window size	128 <u>32</u>
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll - Poll_PDU	200 Not present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
 Last retransmission PDU poll 	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode - In-sequence delivery	AM RLC TRUE
- Receiving window size	1 <u>28</u> 32
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	Not present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
 RB mapping info Information for each multiplexing option 	2 RBMuxOptions
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
 Uplink transport channel type 	DCH
- UL Transport channel identity	5
- Logical channel identity	2 Configured
- CHOICE RLC size list - MAC logical channel priority	Configured
- Downlink RLC logical channel info	2
- Number of RLC logical channels	1
 Downlink transport channel type 	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
 Logical channel identity RLC logical channel mapping indicator 	2 Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	2
- CHOICE RLC size list - RLC size index	Explicit List
- RLC Size Index	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- MAC logical channel priority	2
- Downlink RLC logical channel info	
 Number of RLC logical channels 	1
- Downlink transport channel type	FACH
 DL DCH Transport channel identity DL DSCH Transport channel identity 	Not Present 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 - Transmission RLC discard	AM RLC
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	128<u>32</u>
- Timer_RST	500
- Max_RST	1
- Polling info	I

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Information Element	Value/remark
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not present
- Poll_SDU - Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	<u>12832</u>
- 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	
- CHOICE RLC size list	Configured
 MAC logical channel priority Downlink RLC logical channel info 	3
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	3
- CHOICE RLC size list	Explicit List
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	3
- Downlink RLC logical channel info	
- Number of RLC logical channels	
 Downlink transport channel type DL DCH Transport channel identity 	FACH
- DL DCH Transport channel identity	Not Present Not Present
- Logical channel identity	3
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not present
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No discard
- MAX_DAT	15
- Transmission window size	<u>12832</u>
- Timer_RST	500
- Max_RST	1
- Polling info	200
- Timer_poll_prohibit	200 200
- Timer_poll - Poll_PDU	Not present
- Poll_PDU - Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Window	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC

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Information Element	Value/remark
- In-sequence delivery	TRUE
- Receiving window size	128<u>32</u>
- Downlink RLC status info	000
- Timer_status_prohibit	200
- Timer_EPC	Not Present
- Missing PDU indicator	TRUE
- Timer_STATUS_periodic	Not Present
- RB mapping info	
- 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 4
- Logical channel identity - CHOICE RLC size list	
	Configured
 MAC logical channel priority Downlink RLC logical channel info 	4
- Number of RLC logical channels	1
- Downlink transport channel type	L DCH
- DL DCH Transport channel identity	10
	Not Present
 DL DSCH Transport channel identity Logical channel identity 	4
- RLC logical channel mapping indicator	4 Not Present
- Number of RLC logical channels	
- 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)
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport	
channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- 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)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
 Power offset information 	
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled
	Gain Factors)
- Gain factor ßc	11 (below 64 kbps)
	9 (higher than 64 kbps)
	(Not Present if the above is set to Computed Gain Factors)
- Gain factor ßd	15
	(Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity	5

 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 According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) All CHOICE Logical channel list Transmission time interval Transmission time interval According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) Coding Rate Rate matching attribute 	se 6.10.2.4.1.3 (standalone 13.6) number) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 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 According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) CHOICE Logical channel list Semi-static Transport Format information Transmission time interval According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) Coding Rate Rate matching attribute 	se 6.10.2.4.1.3 (standalone 13.6) number) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 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 According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) CHOICE Logical channel list Semi-static Transport Format information Transmission time interval According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) Coding Rate Rate matching attribute 	se 6.10.2.4.1.3 (standalone 13.6) number) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 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 According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) All CHOICE Logical channel list Semi-static Transport Format information Transmission time interval Coding Rate Rate matching attribute Kate matching attribute) number) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 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 According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) All Choice Logical channel list Semi-static Transport Format information Transmission time interval According to TS34.108 claus kbps signalling radio bearer) All According to TS34.108 claus kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer) Coding Rate Rate matching attribute 	number) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 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 	se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 Number of Transport blocks CHOICE Logical channel list Semi-static Transport Format information Transmission time interval Type of channel coding Coding Rate Coding Rate Rate matching attribute) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 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 	se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 CHOICE Logical channel list Semi-static Transport Format information Transmission time interval Type of channel coding Coding Rate Rate matching attribute) se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 CHOICE Logical channel list Semi-static Transport Format information Transmission time interval Type of channel coding Coding Rate Rate matching attribute 	se 6.10.2.4.1.3 (standalone 13.6) se 6.10.2.4.1.3 (standalone 13.6
 Semi-static Transport Format information Transmission time interval Type of channel coding Coding Rate Rate matching attribute) se 6.10.2.4.1.3 (standalone 13.6
 Transmission time interval Type of channel coding Coding Rate Rate matching attribute) se 6.10.2.4.1.3 (standalone 13.6
 Type of channel coding Type of channel coding Coding Rate Rate matching attribute Rate matching attribute) se 6.10.2.4.1.3 (standalone 13.6
- Type of channel coding - Coding Rate - Rate matching attribute - Rate matchin	se 6.10.2.4.1.3 (standalone 13.6
- Coding Rate - Rate matching attribute - Rate matching attribute	
Coding Rate According to TS34.108 claus kbps signalling radio bearer) Rate matching attribute According to TS34.108 claus kbps signalling radio bearer)	,
- Rate matching attribute - Rate matching attribute kbps signalling radio bearer) According to TS34.108 claus kbps signalling radio bearer)	
- Rate matching attribute According to TS34.108 claus kbps signalling radio bearer)	
kbps signalling radio bearer)	
	, se 6.10.2.4.1.3 (standalone 13.6
kbps signalling radio bearer)	
DL Transport channel information common for all	
transport channel	
- SCCPCH TFCS Not Present	
- CHOICE mode FDD	
- CHOICE DL parameters Same as UL	
Added or Reconfigured DL TrCH information	
- Downlink transport channel type DCH	
- DL Transport channel identity 10	
- CHOICE DL parameters Same as UL	
- Uplink transport channel type DCH	
- UL TrCH Identity 5	
- DCH quality target	
- BLER Quality value -2.0	
Frequency info Not Present	
Maximum allowed UL TX power Not Present	
Uplink DPCH info - Uplink DPCH power control info	
- DPCCH power offset -6dB	
- PC Preamble 11 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)	
	se 6.10.2.4.1.3 (standalone 13.6
kbps signalling radio bearer)	
- TFCI existence According to TS34.108 claus	se 6.10.2.4.1.3 (standalone 13.6
kbps signalling radio bearer))
	se 6.10.2.4.1.3 (standalone 13.6
kbps signalling radio bearer)	
	se 6.10.2.4.1.3 (standalone 13.6
kbps signalling radio bearer))
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing Indication Initialise	
- CFN-targetSFN frame offset Not Present	
- CHOICE mode FDD	
- Downlink DPCH power control information - DPC mode 0 (single)	
- DPC mode 0 (single) - Power offset P _{Pilot-DPDCH} 0	
- Power oliset P _{Pilot-DPDCH} 0 - DL rate matching restriction information Not Present	
	se 6.10.2.4.1.3 (standalone 13.6
kbps signalling radio bearer)	
	, se 6.10.2.4.1.3 (standalone 13.6

Information Element	Value/remark
	kbps signalling radio bearer)
- TFCI existence	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- CHOICE SF	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
 DPCH compressed mode info 	Not Present
- TX Diversity mode	None
- SSDT information	Not Present
- Default DPCH Offset Value	Arbitrary set to value 0306688 by step of 512
Downlink information for each radio links list	
- Downlink information for each radio links	
- CHOICE mode	FDD
- Primary CPICH info	
 Primary scrambling code 	Reference to clause 6.1 "Default settings (FDD)"
- PDSCH with SHO DCH info	Not Present
- PDSCH code mapping	Not Present
- Downlink DPCH info for each RL	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- DPCH frame offset	Set to value: Default DPCH Offset Value mod 38400
- Secondary CPICH info	Not Present
- DL channelisation code	
- Secondary scrambling code	
- Spreading factor	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6
	kbps signalling radio bearer)
- Code number	
- Scrambling code change	Not Present
- TPC combination index	U Not Drocont
- SSDT Cell Identity	Not Present
- Closed loop timing adjustment mode	Not Present
- SCCPCH information for FACH	Not Present

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

Information Element	Value/remark
Message Type	
Initial UE identity	Select the same identity as in the IE "Initial UE Identity" in received RRC CONNECTION REQUEST" message
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Activation time	Not Present (Now)
New U-RNTI	
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC state indicator	CELL_FACH
UTRAN DRX cycle length coefficient	9
Capability update requirement	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

Information Element	Voluokomork
	Value/remark
 DL DCH Transport channel identity DL DSCH Transport channel identity 	10 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	1
- Downlink RLC logical channel info	•
- Number of downlink RLC logical channels	1
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
 Transmission window size 	<u>12832</u>
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99 Not Decemb
- Timer_poll_periodic - CHOICE Downlink RLC mode	Not Present
	AM RLC TRUE
- In-sequence delivery - Receiving window size	12832
- Downlink RLC status info	120<u>32</u>
- 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

Information Element	Value/remark
- 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	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	13 12832
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
 Last transmission PDU poll 	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC TRUE
- In-sequence delivery - Receiving window size	12832
- Downlink RLC status info	120 <u>52</u>
- 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 - CHOICE RLC size list	3 Configured
- MAC logical channel priority	3
- Downlink RLC logical channel info	·
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	3
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL DCH Transport channel identity	Not Present
 Logical channel identity CHOICE RLC size list 	3 Explicit list
- RLC size index	Explicit list 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	3

Information Element	Value/remark
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
- RB identity	Not Present
- CHOICE RLC info type	RLC info
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	No Discard
- MAX_DAT	15
- Transmission window size	1 <u>2832</u>
- Timer_RST	500
- Max_RST	1
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_PDU	Not Present
- Poll_SDU	1
- Last transmission PDU poll	TRUE
- Last retransmission PDU poll	TRUE
- Poll_Windows	99
- Timer_poll_periodic	Not Present
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
- Receiving window size	<u>42832</u>
- 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	4 Configured
- CHOICE RLC size list	Configured
 MAC logical channel priority Downlink RLC logical channel info 	4
- Number of downlink RLC logical channels	1
- Downlink transport channel type	DCH
- DL DCH Transport channel identity	10
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
- RLC logical channel mapping indicator	Not Present
- Number of uplink RLC logical channels	1
- Uplink transport channel type	RACH
- UL Transport channel identity	Not Present
- Logical channel identity	4
- CHOICE RLC size list	Explicit list
- RLC size index	According to TS34.108 clause 6.10.2.4.1.3 (standalone
	13.6 kbps signalling radio bearer)
- MAC logical channel priority	4
- Downlink RLC logical channel info	
- Number of downlink RLC logical channels	
- Downlink transport channel type	FACH
- DL DCH Transport channel identity	Not Present
- DL DSCH Transport channel identity	Not Present
- Logical channel identity	4
UL Transport channel information for all transport channels	
- PRACH TFCS	Not Present
- CHOICE Mode	FDD
- TFC subset	Not Present
- UL DCH TFCS	
- CHOICE TFCI signalling	Normal
- TFCI Field 1 information	
- CHOICE TFCS representation	Addition
- TFCS complete reconfigure	
-	

Information Element	Value/remark
- CHOICE CTFC Size	2bit CTFC
- CTFC information	This IE is repeated for TFC numbers according to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
- CTFC	According to TS34.108 clause 6.10.2.4.1.3 (standalone 13.6 kbps signalling radio bearer)
 Power offset information 	
- CHOICE Gain Factors	Computed Gain Factors (The last TFC is set to Signalled Gain Factors)
- Gain factor ßc	11 (below 64 kbps) 9 (higher than 64 kbps) (Not Present if the above is set to Computed Gain
- Gain factor ßd	Factors) 15 (Not Present if the above is set to Computed Gain Factors)
- Reference TFC ID	0
- CHOICE mode	FDD
- Power offset Pp-m	Not Present
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured UL TrCH information	
- Uplink transport channel type	DCH
- UL Transport channel identity - TFS	5
 CHOICE Transport channel type Dynamic Transport format information 	Delicated transport channels
- RLC Size	Value 16 results in an RLC size of 144 bits; OctetModeType1 ((8*sizeType1)+16).
 Number of TBs and TTI List 	List with single entry
- Transmission Time Interval	Not Present
 Number of Transport blocks 	0
- CHOICE Logical Channel List	ALL
- Semi-static Transport Format information	
- Transmission time interval	40 ms
- Type of channel coding	Convolutional
- Coding Rate	1/3
- Rate matching attribute	160
- CRC size	16
DL Transport channel information common for all transport channel	
- SCCPCH TFCS	Not Present
- CHOICE mode	FDD
- CHOICE DL parameters	Same as UL
Added or Reconfigured TrCH information list	TS 25.331 specifies that "Although this IE is not required when the IE "RRC state indicator" is set to "CELL_FACH", need is MP to align with ASN.1"
- Added or Reconfigured DL TrCH information	
- Downlink transport channel type	DCH
- DL Transport channel identity	10
- CHOICE DL parameters	Same as UL
- Uplink Transport channel type	DCH
- UL TrCH identity	5
- DCH quality target	Not Present
Frequency info	Not present
Maximum allowed UL TX power	Not present
CHOICE channel requirement	Not Present
Downlink information common for all radio links	Not Present
Downlink information for each radio link list	Not present
Downlink information common for all radio links	