Source: T1

Title: CR's to TS 34.108 v3.2.0 for approval

Agenda item: 6.1

Document for: Approval

This document contains 8 CRs to TS 34.108 v3.2.0. These CRs have been agreed by T1 and are put forward to TSG T for approval.

CRs with routine updates:

Spec	CR	Rev	Phase	Subject	Cat	Version- Current	Version -New	Doc-2nd- Level
34.108	032		R99	Default radio conditions for multi-cell environment	F	3.2.0	3.3.0	T1-010078
34.108	033		R99	Correction for Generic Setup Procedures (34.108 clause	F	3.2.0	3.3.0	T1-010079
34.108	034		R99	Corrections for Test USIM Parameters(34.108 clause 8)	F	3.2.0	3.3.0	T1-010080
34.108	035		R99	Correction of clause number in TS 34.108.	D	3.2.0	3.3.0	T1-010081
34.108	036		R99	Update of authentication test algorithm	С	3.2.0	3.3.0	T1-010082
34.108	037		R99	Updates to clause 9 of TS 34.108 v3.2.0	F	3.2.0	3.3.0	T1-010084
34.108	038		R99	Updating to TDD single mode	F	3.2.0	3.3.0	T1-010088
34.108	039		R99	Simulated network environments for TDD mode (SIB)	F	3.2.0	3.3.0	T1-010089

T1S-010005

+3GPP TSG-T1 Meeting #10 Copenhagen, Denmark, 8-9 February, 2001

Tdoc T1S-010005

Tdoc T1-010078

3GPP TSG-T1/SIG Meeting #15 Copenhagen, Denmark, 5-7 February, 2001

			CHA	NGE	REC	QUE	ST	•			CR-Form-v3
*	34.	108	CR <mark>032</mark>		₩ rev	-	ж	Current vers	sion:	3.2.0	H
For <u>HELP</u> on u	sing t	his for	m, see botto	m of this	s page c	r look	at th	e pop-up text	over	the # syr	mbols.
Proposed change a	affect	ts: #	(U)SIM	ME	/UE <mark>X</mark>	Rad	io Ad	ccess Networ	k	Core Ne	etwork
Title: #	Def	ault ra	dio condition	ns for mu	ılti-cell e	nviron	men	t			
Source: #	Eric	sson,	Panasonic								
Work item code: 第								<i>Date:</i> ∺	200	01-02-02	
Category: Ж	F							Release: ₩	R9	9	
	Detai	F (ess A (cor B (Add C (Fur D (Edi iled exp	the following of ential correction responds to a dition of featur nctional modifica blanations of tl 3GPP TR 21.5	on) correctio e), cation of tion) he above	n in an e feature)			Use <u>one</u> of 2 e) R96 R97 R98 R99 REL-4 REL-5	(GSM (Rele (Rele (Rele (Rele (Rele	ollowing rele A Phase 2) pase 1996) pase 1997) pase 1999) pase 4) pase 5)	eases:
Reason for change		ar fro 2. TI 3. Po ha	nd can only bom 1 up to 6 ne cells are rarameters al	ne used to cells, we now specification in the cells in th	for this remust he must he cified so dicated	that Ion	r of cetups or/loc defac	ed for 6 cells cells. However some consisting of and other coult system information to the could be considered as a consistency of the could be considered as a country of the count	er, as f 1 to ondition	test cases 6 cells. ons are ide	entical.
Summary of chang	ge:♯	Radi	o conditions	are spec	cified for	test c	onfig	jurations cons	sisting	g of 1 up t	o 6 cells
Consequences if not approved:	ж	Miss	ing and inco	nsistent	radio co	ndition	ns foi	r multi-cell en	vironi	ment	
Clauses affected:	ж	6.1, I	ast table								
Other specs affected: Other comments:	# [Te	ther core specificat M Specificat	ions	ns S	K					

1

Default Radio Conditions for Multi-Cell Environment

In the event that a multi-cell environment is applied by the System Simulator, the following transmission parameters shall be used unless otherwise stated in the description of individual test case.

Table 6.1.1 Default radio conditions dependent on Number of cells

Number of cells	<u>Parameter</u>	<u>Unit</u>	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
	UTRA RF Channel Number		<u>Ch. 1</u>	<u>Ch. 1</u>	<u>Ch. 1</u>	<u>Ch. 2</u>	<u>Ch. 2</u>	<u>Ch. 2</u>
1	\hat{I}_{or}/I_{oc}	<u>dB</u>	<u>8</u>					
	CPICH_Ec/lo	<u>dB</u>	<u>-10.6</u>					
	CPICH RSCP	<u>dBm</u>	<u>-72</u>					
2	\hat{I}_{or}/I_{oc}	d B	<u>8</u>	<u>8</u>				
	CPICH_Ec/lo	<u>dB</u>	<u>-13.3</u>	<u>-13.3</u>				
	<u>CPICH RSCP</u>	<u>dBm</u>	<u>-72</u>	<u>-72</u>				
<u>3</u>	\hat{I}_{or}/I_{oc}	<u>В</u>	<u>8</u>	<u>8</u>	<u>8</u>			
	CPICH Ec/lo	<u>dB</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>			
	CPICH RSCP	<u>dBm</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>			
4	\hat{I}_{or}/I_{oc}	<u>dB</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>		
	CPICH_Ec/lo	dB	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-10.6</u>		
	CPICH RSCP	<u>dBm</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>		
<u>5</u>	\hat{I}_{or}/I_{oc}	<u>dB</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	
	CPICH_Ec/lo	<u>dB</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-13.3</u>	<u>-13.3</u>	
	CPICH RSCP	<u>dBm</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>	
<u>6</u>	\hat{I}_{or}/I_{oc}	<u>dB</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>8</u>
	CPICH_Ec/lo	<u>dB</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>
	CPICH RSCP	dBm	<u>-72</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>	<u>-72</u>

Table 6.1.2 Default radio conditions in Idle mode

Parameter	Unit	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
CPICH_Ec/lor	<u>dB</u>	<u>-10</u>	<u>-10</u>	<u>-10</u>	<u>-10</u>	<u>-10</u>	<u>-10</u>
PCCPCH_Ec/lor	<u>dB</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>
SCCPCH_Ec/lor	<u>dB</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>	<u>-12</u>
AICH_Ec/lor	<u>dB</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>
SCH_Ec/lor	<u>dB</u>	12	<u>-12</u>	12	<u>-12</u>	<u>-12</u>	<u>-12</u>
PICH_Ec/lor	<u>dB</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>
DPCH_Ec/lor	<u>dB</u>		-∞		_∞	-8	-∞
OCNS_Ec/lor	<u>dB</u>	<u>-1.888</u>	<u>-1.888</u>	<u>-1.888</u>	<u>-1.888</u>	<u>-1.888</u>	<u>-1.888</u>
I_{oc}	dBm/			<u>-7</u>	0		
	<u>3.84</u>						
	<u>MHz</u>						
Propagation				AWGN	Static		
ConditionProfile							
UE_TXPWR_MAX	<u>₽d</u> Bm	Max. RF					
_RACH		Output	Output	Output	Output	Output	Output
		of UE					

Table 6.1.3 Default radio conditions in Connected mode

<u>Parameter</u>	<u>Unit</u>	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
CPICH Ec/lor	dB	-10	-10	-10	-10	-10	-10
PCCPCH_Ec/lor	dB	-12	-12	-12	-12	-12	-12
SCCPCH_Ec/lor	dB	-12	-12	-12	-12	-12	-12
AICH_Ec/lor	<u>dB</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>
SCH_Ec/lor	<u>dB</u>	<u>-12</u>	-12	<u>-12</u>	<u>-12</u>	<u>-12</u>	-12
PICH_Ec/lor	<u>dB</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>	<u>-15</u>
DPCH_Ec/lor	<u>dB</u>	<u>- 15</u>					
OCNS Ec/lor	<u>dB</u>	<u>-2.106</u>	<u>-2.106</u>	<u>-2.106</u>	<u>-2.106</u>	<u>-2.106</u>	<u>-2.106</u>
I_{oc}	dBm/			<u>-7</u>	<u>0</u>		
	3.84						
	MHz						
<u>Propagation</u>				AW	<u>GN</u>		
Condition							
UE TXPWR MAX	<u>dBm</u>	Max. RF					
<u>RACH</u>		<u>Output</u>	<u>Output</u>	Output	Output	Output	Output
		of UE					

3GPP TSG-T1 Meeting #10 Copenhagen, Denmark, 8-9 February, 2001

Tdoc T1S-010010

Tdoc T1-010079

3GPP TSG T1/SIG Meeting #15 Copenhagen, Denmark, 5th – 7th February 2001

	CHANGE REQUEST						
*	34.108 CR 033 # rev - # 0	Current version: 3.2.0					
For <u>HELP</u> on u	For <u>HELP</u> on using this form, see bottom of this page or look at the pop-up text over the ℜ symbols.						
Proposed change	affects:	ess Network Core Network					
Title: ♯	Correction for Generic Setup Procedures (34.108 c	clause 7.2)					
Source: #	NTT DoCoMo						
Work item code: ₩		Date:					
Category: Ж	F	Release: ♯ R99					
	Use one of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)					
Reason for change	e: ** Correction for the current version.						
	Ge: Correction of the figure based on the conbined						
Consequences if not approved:	第 Test environment will have differences with rea	ai environment.					
	00.7.0						
Clauses affected:	¥ 7.2						
Other specs affected:	# Other core specifications # Test specifications O&M Specifications						
Other comments:	*						

How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked \$\mathbb{X}\$ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

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

7 Generic setup procedures

7.2 Generic setup procedures

7.2.1 UE Test States for Generic setup procedures

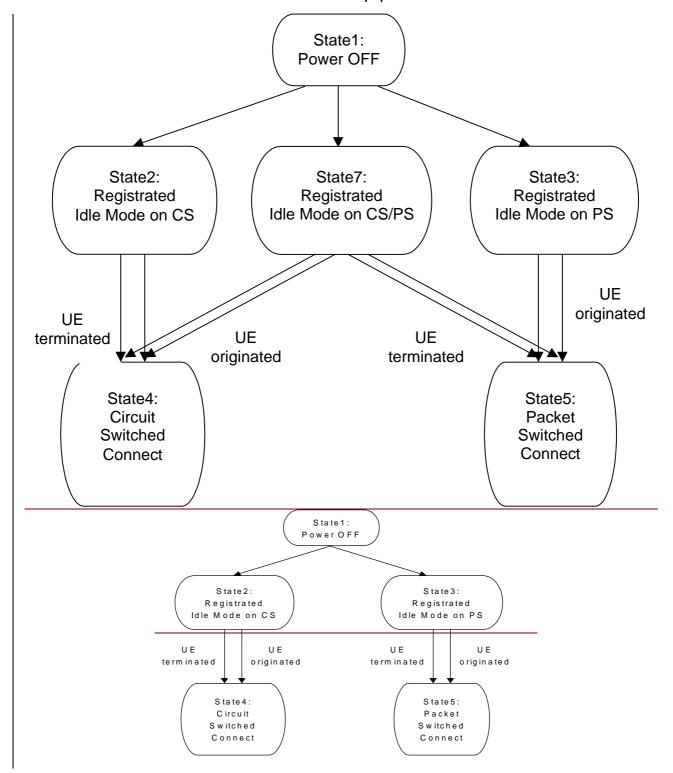


Figure 7.2.1.1: UE Test States for Generic setup procedures

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 above and the status of the relevant protocols in the UE in the different states are given in Table 7.2.1.1 below.

Table 7.2.1.1: The UE states

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

3GPP TSG-T1 Meeting #10 Copenhagen, Denmark, 8-9 February, 2001 Tdoc T1-010080

3GPP TSG T1/SIG Meeting #15 Copenhagen, Denmark, 5th – 7th February 2001

Tdoc T1S-010011

	CHANGE REQUEST	CR-Form-v3
*	34.108 CR 034	3.2.0 [#]
For <u>HELP</u> o	n using this form, see bottom of this page or look at the pop-up text over	er the
Proposed chang	ge affects: ### (U)SIM ME/UE X Radio Access Network	Core Network
Title:	★ Corrections for Test USIM Parameters(34.108 clause 8)	
Source:	₩ NTT DoCoMo	
Work item code	Date: ♯ <mark>5th</mark>	February 2001
Category:	₩ F Release: ₩ RS	99
	F (essential correction)2(GSA (corresponds to a correction in an earlier release)R96(ReB (Addition of feature),R97(ReC (Functional modification of feature)R98(ReD (Editorial modification)R99(ReDetailed explanations of the above categories canREL-4(Re	following releases: SM Phase 2) elease 1996) elease 1997) elease 1998) elease 1999) elease 4) elease 5)

Reason for change: #	USIM specifications have been changed.
Summary of change: ₩	1) Some editorial errors have been corrected.
	2) New EF files have been added.
	EF _{GMSI} / EF _{RPLMNACT} / EF _{NETPAR}
	3) EF files have been withdrawed.
	EF _{BCCH} / EF _{CCP}
	4) Names have been changed.
	EF _{UPLMNsel} →EF _{PLMNwAcT}
	$EF_{CCP} \rightarrow EF_{ECCP}$
	5) Parameters have been added.
	EF _{UST} / EF _{PUCT} / EF _{ACC}
	6) Errors have been corrected.
	EF _{ACM} / EF _{AD}
Consequences if # not approved:	Test USIM parameters will have differences with USIM specifications.

Clauses affected: 第 8.3

|--|

How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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

8.3 Default settings for the Elementary Files (EFs)

The format and coding of elementary files of the USIM are defined in TS31.101 and TS31.102. The following clauses define the default parameters to be programmed into each elementary file. Some files may be updated by the UE based on information received from the SS. These are identified in the following clauses.

If EFs have an unassigned value, it may not be clear from the main text what this value should be. This clause suggests values in these cases.

8.3.1 Contents of the EFs at the MF level

8.3.1.1 EF_{DIR}

8.3.1.2 EF_{ICCID} (ICC Identity)

The programming of this EF is a test house option.

8.3.1.3 EF_{PL} (Preferred Languages)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.1.4 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2 Contents of files at the USIM ADF (Application DF) level

8.3.2.1 EF_{LI} (Language Indication)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.2 EF_{IMSI} (IMSI)

The IMSI value will be chosen by the test house. The IMSI used by the SS will align this value.

File size: 9 bytes

Default values: Byte 1 (DEC): 8

Bytes 2-9 (HEX):09 10 10 ** ** ** **

"*" indicates any number between 0 and 9 subject to the restriction that IMSI mod 1000 (i.e. bytes 7, 8 and 9) lies in one of the following ranges:

063-125, 189-251, 315-377, 441-503, 567-629, 693-755, 819-881 or 945-999

NOTE: This ensures that the UE can listen to the second CCCH when more than one basic physical channel is configured for the CCCH. This is necessary for the test of "paging re-organization".

8.3.2.3 EF_{Kevs} (Ciphering and Integrity Keys)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.4 EF_{KevsPS} (Ciphering and Integrity Keys for Packet Switched domain)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.5 <u>EF_{PLMNwAcT} (User controlled PLMN selector with Access Technology)</u> EF_{LIPL MNsel} (User PLMN selector)

File size: 5n bytes

Default values (HEX): Bytes 1-3: 32 F4 10 (MCC, MNC) - Translates to 234, 01

Bytes 4-5: 80 00 (Access Technology) – Translates to UTRAN

Bytes 6-8: 32 F4 20 (MCC, MNC)

Bytes 9-10: 80 00 (Access Technology)

Bytes 11-13: 32 F4 30 (MCC, MNC)

••••

••••

••••

Bytes(5n-4) - (5n-2): 32 F4 43 (MCC, MNC)

Bytes (5n-1) - 5n: 80 00 (Access Technology)

PLMNs are shown coded above since this is the largest number required for a test. It is necessary to take this into account since the USIM cards must be dimensioned to cope with this number of records.

8.3.2.6 EF_{HPLMN} (HPLMN search period)

File size: 1 byte

Default value (HEX): 00 (no HPLMN search attempts)

8.3.2.7 EF_{ACMmax} (ACM maximum value)

File size: 3 bytes

Default: _____Byte 1: 00

Byte 2: 00

Byte 3: 00

The above translates to: "Not valid".

8.3.2.8 EF_{UST} (USIM Service Table)

Services will be allocated and activated as follows:

<u>Services</u>		Activated
Service n°1:	Local Phone Book	<u>Option</u>
Service n°2:	Fixed Dialling Numbers (FDN)	Option
Service n°3:	Extension 2	Option
Service n°4:	Service Dialling Numbers (SDN)	Option
Service n°5:	Extension3	Option
Service n°6:	Barred Dialling Numbers (BDN)	Option
Service n°7:	Extension4	Option
Service n°8:	Outgoing Call Information (OCI and OCT)	Option
Service n°9:	Incoming Call Information (ICI and ICT)	Option
Service n°10:	Short Message Storage (SMS)	Yes
Service n°11:	Short Message Status Reports (SMSR)	Option
Service n°12:	Short Message Service Parameters (SMSP)	Yes
Service n°13:	Advice of Charge (AoC)	Yes
Service n°14:	Capability Configuration Parameters (CCP)	Yes
Service n°15:	Cell Broadcast Message Identifier	<u>Yes</u>
Service n°16:	Cell Broadcast Message Identifier Ranges	Yes
Service n°17:	Group Identifier Level 1	<u>Option</u>
Service n°18:	Group Identifier Level 2	<u>Option</u>
Service n°19:	Service Provider Name	Option
Service n°20:	User controlled PLMN selector with Access Technology	Yes
Service n°21:	MSISDN	<u>Option</u>
Service n°22:	Image (IMG)	<u>Option</u>
Service n°23:	Not used (reserved for SoLSA)	<u>No</u>
Service n°24:	Enhanced Multi-Level Precedence and Pre-emption Service	<u>Option</u>
Service n°25:	Automatic Answer for Emlpp	<u>Option</u>
Service n°26:	<u>RFU</u>	<u>No</u>
Service n°27:	GSM Access	<u>Yes</u>
Service n°28:	Data download via SMS-PP	<u>Option</u>
Service n°29:	Data download via SMS-CB	<u>Option</u>
Service n°30:	Call Control by USIM	<u>Option</u>
Service n°31:	MO-SMS Control by USIM	<u>Option</u>
Service n°32:	RUN AT COMMAND command	<u>Option</u>
Service n°33:	Packet Switched Domain	<u>Yes</u>
Service n°34:	Enabled Services Table	<u>Yes</u>
Service n°35:	APN Control List (ACL)	<u>Option</u>
Service n°36:	Depersonalisation Control Keys	<u>Option</u>
Service n°37:	Co-operative Network List	<u>Option</u>
Service n°38:	GSM security context	<u>Yes</u>
Service n°39:	<u>CPBCCH Information</u>	<u>Yes</u>
Service n°40:	Investigation Scan	<u>Yes</u>
Service n°41:	<u>MExE</u>	<u>Option</u>
Service n°42	Operator controlled PLMN selector with Access Technology	<u>Yes</u>
Service n°43	HPLMN selector with Access Technology	<u>Yes</u>

Services		Activated
Service n°1:	Local Phone Book	
Service n°2:	Fixed Dialling Numbers (FDN)	
Service n°3:	Extension 2	
Service n°4:	Service Dialling Numbers (SDN)	
Service n°5 :	Extension3	
Service n°6 :	Barred Dialling Numbers (BDN)	
Service n°7:	Extension4	
Service n°8 :	Outgoing Call Information (OCI and OCT)	
Service n°9 :	Incoming Call Information (ICI and ICT)	
Service n°10:	Short Message Storage (SMS)	
Service n°11:	Short Message Status Reports (SMSR)	
Service n°12:	Short Message Service Parameters (SMSP)	
Service n°13:	Advice of Charge (AoC)	
Service n°14:	Capability Configuration Parameters (CCP)	
Service n°15:	Cell Broadcast Message Identifier	
Service n°16:	Cell Broadcast Message Identifier Ranges	
Service n°17:	Group Identifier Level 1	
Service n°18:	Group Identifier Level 2	
Service n°19:	Service Provider Name	
Service n°20:	PLMN selector	
Service n°21:	MSISDN	
Service n°22:	Image (IMG)	
Service n°23:	Not used (reserved for SoLSA)	
Service n°24:	Enhanced Multi-Level Precedence and	
	Pre-emption Service	
Service n°25:	Automatic Answer for Emlpp	
Service n°26:	RFU	
Service n°27:	GSM Access	
Service n°28:	Data download via SMS-PP	
Service n°29:	Data download via SMS-CB	
Service n°30:	Call Control by USIM	
Service n°31:	MO-SMS Control by USIM	
Service n°32:	RUN AT COMMAND command	
Service n°33:	Packet Switched Domain	
Service n°34:	Enabled Services Table	
Service n°35:	APN Control List (ACL)	
Service n°36:	Depersonalisation Control Keys	
Service n°37:	Co-operative Network List	
Service n°38:	GSM security context	
Service n°39:	CPBCCH Information	
Service n°38:	Investigation Scan	
Service n°38:	MEXE	

8.3.2.9 EF_{ACM} (Accumulated Call Meter)

File size: 3 bytes

Default: Byte 1: 00

Byte 2: 00

Byte 3: 00

Byte 4: 02

The above translates to: "Not yet implemented".

8.3.2.10 $\mathsf{EF}_{\mathsf{GID1}}$ (Group Identifier Level 1)

The programming of this EF is a test house option.

8.3.2.11 EF_{GID2} (Group Identifier Level 2)

The programming of this EF is a test house option.

8.3.2.12 EF_{SPN} (Service Provider Name)

The programming of this EF is a test house option.

8.3.2.13 EF_{PUCT} (Price per Unit and Currency Table)

The programming of this EF follows default parameter written in TS31.102 Annex E.

File size: 5 bytes

Default: Byte 1 3: FF

Byte 4-5: 00

8.3.2.14 EF_{CBMI} (Cell Broadcast Message identifier selection)

The programming of this EF is a test house option.

The file size is 2n bytes, where n is the number of Cell broadcast message identifier records - each record defining a type of Cell Broadcast message which may be accessed by the UE. Care should be taken when dimensioning the USIM to take into account the number of Cell Broadcast message identifier records required.

8.3.2.15 EF_{ACC} (Access Control Class)

The EFACC can be selected by a test house in two types.

Type A;

File size: 2 Bytes

Byte 2: *******

The test house may set any single bit of byte 2shown by "*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

Type B;

<u>Default values (BIN):</u> Byte 1: 111110**

Byte 2: *******

The test house may set any single bit shown by "*" to "1". All remaining bits of byte 2 will be set to "0". This

the test house may set any single bit shown by "*" to "1". All remaining bits of byte 2 will be set to "0". This determines the access control class of the USIM.

8.3.2.16 EF_{FPI MN} (Forbidden PLMNs)

The programming of this EF follows default parameter written in TS31.102 Annex E.

Length: 12 Bytes

Format (HEX): Bytes 1-3: FF FF FF

Bytes 4 6: FF FF FF

Bytes 7 9: FF FF FF

Bytes 10 12: FF FF FF

This coding corresponds to an empty "forbidden PLMN list". The bytes within this file may be updated if a LOCATION UPDATE REJECT message is received by the UE with cause, "PLMN not allowed".

8.3.2.17 EF_{LOCI} (Location Information)

File size: 11 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (TMSI)

Bytes 5-9 (HEX): 42 F6 18 FF FE (LAI)

Byte 10 (HEX): ____FF (RFU)

Byte 11 (BIN): 00000001 (Location Update Status = "not updated")

Bytes 5-9: LAI-MCC = 246 (bytes 5-6) and LAI-MNC = 81 (byte 7) are frequently used. The LAC (bytes 8-9) is set to "FF FE" since this, in conjunction with byte 11 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

8.3.2.18 EF_{AD} (Administrative Data)

File size: $\frac{3-4}{4}$ bytes

Default values Byte 1: 10000000 - (type approval operations)

Byte 2: <u>00000000111111111</u>

Byte 3: <u>00000000</u>11111111

Byte 4: 00000010

8.3.2.19 Void

8.3.2.20 EF_{CBMID} (Cell Broadcast Message Identifier for Data Download)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.21 EF_{FCC} (Emergency Call Codes)

The programming of this EF is a test house option.

8.3.2.22 EF_{CRMIR} (Cell Broadcast Message Identifier Range selection)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.23 EF_{PSLOCI} (Packet Switched location information)

File size: 14 Bytes

Default values: Bytes 1-4 (HEX): FF FF FF (P-TMSI)

Bytes 5-7 (HEX): FF FF (P-TMSI signature value)

Bytes 8-13 (HEX): ___42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): ____00000001 (Routing Area update status = "not updated")

Bytes 8-13: RAI-MCC = 246 (bytes 8-9) and RAI-MNC = 81 (byte 10) are frequently used. The LAC (bytes 11-12) is set to "FF FE" since this, in conjunction with byte 14 setting of "01", is used to ensure that the UE performs a location update at the beginning of a test.

Bytes in this file (e.g. P-TMSI in bytes 1-4) may be updated as a result of a location update attempt by the UE.

8.3.2.24 EF_{FDN} (Fixed Dialling Numbers)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.25 EF_{SMS} (Short messages)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.26 EF_{MSISDN} (MSISDN)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.27 EF_{SMSP} (Short message service parameters)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.28 EF_{SMSS} (SMS status)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.29 EF_{SDN} (Service Dialling Numbers)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.30 EF_{EXT2} (Extension2)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.31 EF_{EXT3} (Extension3)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.32 EF_{SMSR} (Short message status reports)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.33 EF_{ICI} (Incoming Call Information)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.34 EF_{OCI} (Outgoing Call Information)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.35 EF_{ICT} (Incoming Call Timer)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.36 EF_{OCT} (Outgoing Call Timer)

8.3.2.37 EF_{EXT5} (Extension5)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.38 EF_{CCP2} (Capability Configuration Parameters 2)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.39 EF_{eMLPP} (enhanced Multi Level Precedence and Pre-emption)

The programming of this EF is a test house option.

8.3.2.40 EF_{AAeM} (Automatic Answer for eMLPP Service)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.41 EF_{GMSI} (Group Identity)Void

This subclause is expected to be defined in the release 2000 version of the present document.

8.3.2.42 EF_{Hiddenkev} (Key for hidden phone book entries)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.43 Void

8.3.2.44 EF_{BDN} (Barred dialling numbers)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.45 EF_{EXT4} (Extension 4)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.46 EF_{CMI} (Comparison method information)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.47 EF_{EST} (Enabled service table)

The programming of this EF is a test house option.

8.3.2.48 EF_{ACL} (Access point name control list)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.49 EF_{DCK} (Depersonalisation control keys)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.50 EF_{CNL} (Co-operative network list)

8.3.2.51 EF_{START-HFN} (Initialisation values for Hyperframe number)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.52 EF_{THRESHOLD} (Maximum value of START)

The programming of this EF is a test house option.

8.3.2.53 EF_{OPLMNsel} (OPLMN selector)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.54 EF_{PHPI MNAT} (Preferred HPLMN Access Technology)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.55 EF_{ARR} (Access rule reference)

The programming of this EF is a test house option.

8.3.2.56 EF_{RPLMNACT} (RPLMN Last used Access Technology)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.2.57 EF_{NETPAR} (Network Parameters)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3 Contents of DFs at the USIM ADF (Application DF) level

8.3.3.1 Contents of files at the USIM SoLSA level

8.3.3.1.1 EF_{SAI} (SoLSA Access Indicator)

This subclause is expected to be defined in the release 2000 version of the present document.

8.3.3.1.2 EF_{SLL} (SoLSA LSA List)

This subclause is expected to be defined in the release 2000 version of the present document.

8.3.3.1.3 LSA Descriptor files

This subclause is expected to be defined in the release 2000 version of the present document.

8.3.3.1.4 Contents of files at the MExE level

8.3.3.1.4.1 EF_{MExE-ST} (MExE Service table)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.1.4.2 EF_{ORPK} (Operator Root Public Key)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.1.4.3 EF_{ARPK} (Administrator Root Public Key)

8.3.3.1.4.4 EF_{TPRPK} (Third Party Root Public Key)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.1.4.5 EF_{TKCDF} (Trusted Key/Certificates Data Files)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2 Contents of files at the DF PHONEBOOK level

8.3.3.2.1 EF_{PBR} (Phone Book Reference file)

The programming of this EF is a test house option.

8.3.3.2.2 EF_{IAP} (Index Administration Phone book)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.3 EF_{ADN} (Abbreviated dialling numbers)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.4 EF_{EXT1} (Extension1)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.5 EF_{PBC} (Phone Book Control)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.6 EF_{GRP} (Grouping file)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.7 EF_{AAS} (Additional number Alpha String)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.8 EF_{GAS} (Grouping information Alpha String)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.9 EF_{ANR} (Additional Number)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.10 EF_{SNF} (Second Name Entry)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.11 EF_{CCP1} (Capability Configuration Parameters 1)

8.3.3.2.12 Phone Book Synchronisation

8.3.3.2.12.1 EF_{UID} (Unique Identifier)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.12.2 EF_{PSC} (Phone book Synchronisation Counter)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.12.3 EF_{CC} (Change Counter)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.12.4 EF_{PUID} (Previous Unique Identifier)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.2.13 EF_{EMAIL} (e-mail address)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.3 Contents of files at the DF GSM level (Files required for GSM Access)

8.3.3.3.1 EF_{Kc} (GSM Ciphering key Kc)

File size: 9 Bytes

8.3.3.3.3

Default values (HEX): Bytes 1-8: Align with Kc used by SS

Byte 9: 07

Byte 9 is set to 07 to indicate that there is no key available at the start of a test.

The bytes within this elementary file may be updated by the UE as a result of a successful authentication attempt.

8.3.3.3.2 EF_{KcGPRS} (GPRS Ciphering key KcGPRS)

The programming of this EF follows default parameter written in TS31.102 Annex E.

VoidEF_{BCCH} (Broadcast Control Channels)

File size:	16 Bytes	
Default values (BIN):	Bytes 1 2:	11111111 11111111
	Bytes 3 4:	111111111111111111111111111111111111111
	Bytes 5 6:	11111111 11111111
	Bytes 7-8:	111111111111111111111111111111111111111
	Bytes 9-10:	111111111111111111111111111111111111111
	Bytes 11 12:	111111111111111111111111111111111111111
	Bytes 13-14:	

This field may be updated dependent on the UE implementation.

Bytes 15-16:

- 11111111 11111111

8.3.3.3.4 EF_{CPBCCH} (CPBCCH Information)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.3.5 EF_{InvScan} (Investigation Scan)

The programming of this EF follows default parameter.

8.3.4 Contents of EFs at the TELECOM level

8.3.4.1 EF_{ADN} (Abbreviated dialling numbers)

The programming of this EF is a test house option. It should be noted that sufficient space should be provided on the USIM card for 101 records.

8.3.4.2 EF_{EXT1} (Extension1)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.4.3 EF_{ECCP} (<u>Extended</u> Capability Configuration Parameters)

The programming of this EF is a test house option.

 File size:
 14 bytes

 Default values
 Byte 1:
 04

 Byte 2:
 01

 Byte 3:
 A0

 Bytes 4-14:
 FF

<The above translates to: "Full rate, GSM Standardized coding, circuit mode and speech".>

8.3.4.4 EF_{SUME} (SetUpMenu Elements)

The programming of this EF is a test house option.

8.3.4.5 EF_{ARR} (Access rule reference)

The programming of this EF follows default parameter written in TS31.102 Annex E.

8.3.5 Contents of DFs at the TELECOM level

8.3.5.1 Contents of files at the DF_{GRAPHICS} level

8.3.5.1.1 EF_{IMG} (Image)

8.3.5.1.2 Image Instance Data Files

8.3.5.2 Contents of files at the DF_{PHONEBOOK} under the DF_{TELECOM}

8.3.5.2.1 EF_{CCP} (Capability Configuration Parameters)

The programming of this EF follows default parameter written in TS31.102 Annex E.

The programming of this EF is a test house option.

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How to create CRs using this form:

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<Start of modified section>

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

6.10.2.4.1.50.1 Uplink

6.10.2.4.1.50.1.1 Transport channel parameters

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

See 6.10.2. <u>5.4</u>.1.13.1.1.1

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

See 6.10.2.4.1.2.1.1.1

6.10.2.4.1.50.1.1.3 TFCS

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

6.10.2.4.1.50.1.2 Physical channel parameters

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

6.10.2.4.1.50.2 Downlink

6.10.2.4.1.50.2.1 Transport channel parameters

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

See 6.10.2.4.1.13.2.1.1

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

See 6.10.2.4.1.2.2.1.1

6.10.2.4.1.50.2.1.3 TFCS

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

6.10.2.4.1.50.2.2 Physical channel parameters

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

<End of modified section>

<Start of modified section>

 $\underline{6.10.2.4.2.2}\underline{6.10.2.4.2.2} \quad \text{Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH}$

6.10.2.4.2.2.1 Uplink

See 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

See 6.10.2.4.1.32.2.1.1

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

See 6.10.2.4.1.2.2.1.1

6.10.2.4.2.2.1.3 TFCS

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

6.10.2.4.2.2.2.2 Physical channel parameters

PDSCH	RAB or SF	RB, TrCh	Interactive or background / 384 kbps / PS RAB, DSCH
	DTX positi	on	N/A (SingleTrCH)
	Spreading	factor	8
DPCH	RAB or SF	RB, TrCh	3.4 kbps SRB for DCCH, DCH
Downlink	DTX positi	on	N/A (SingleTrCH)
associate	Minimum s	spreading factor	256
d with	DPCCH	Number of TFCI bits/slot	0
PDSCH		Number of TPC bits/slot	2
		Number of Pilot bits/slot	8
	DPDCH	Number of data bits/slot	10
		Number of data bits/frame	150

<End of modified section>

3GPP TSG-T1/SIG Meeting #15 Copenhagen, Denmark, 5-7 Feb. 2001

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[21]

<Start of 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.
- 3GPP TS 34.123-1: "Mobile Station (MS) conformance specification; Part 1: Protocol [1] conformance specification". [2] 3GPP TS 34.121: "Radio transmission and reception (FDD)". [3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification". 3GPP TS 34.124: "Electromagnetic compatibility (EMC) requirements for Mobile terminals and [4] ancillary equipment". [5] 3GPP TS 34.122: "Terminal Conformance Specification; Radio transmission and reception (TDD)". [6] 3GPP TS 34.109: "Logical Test Interface (FDD) Special conformance testing functions". [8] 3GPP TS 25.214: "Physical layer procedures (FDD)". [7] 3GPP TS 25.301 Services Provided by the physical layer [9] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications". [10] 3GPP TR 25.990: "Vocabulary". [11] 3GPP TS 25.101: "UE Transmission and Reception (FDD)". 3GPP TS 25.102: "UE Transmission and Reception (TDD)". [12] [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 QoS concept and Architecture
- [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) 3GPP TR 23.910 Circuit Switched Data Bearer Service [18] GSMA-ISG: Typical Radio Parameter Sets, version 1.1, IS Doc 049/00, 20 March 2000 [19]

3GPP TS 25.104 UTRA (BS)-FDD Radio Transmission and Reception

3GPP TS 25.105 UTRA (BS)-TDD Radio Transmission and Reception

3GPP TS 26.110 Codec for Circuit Switched Multimedia Telephony Service; General Description

[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 Security Architecture
[25]	3GPP TS 33.103 Integration Guidelines
[26]	3GPP TS 33.105 Cryptographic Algorithm Requirements

<End of modified section>

<Start of modified section>

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 TS34.123-1.

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 TS31.101 and TS31.102.

"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 [24] TS 33.102 and [26] TS 33.105 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*.

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.

In all data transfer the most significant byte is the first byte to be sent; data is represented so that the left most bit is the most significant bit of the most significant byte.

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 and AK respectively, to be used in the authentication and key agreement procedure.

Step 1:

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

The result **XDOUT** of this is:

```
XDOUT[bits 0,1, \dots 126,127] = K\frac{1}{2}[bits 0,1, \dots 126,127] XOR RAND[bits 0,1, \dots 126,127]
```

Step 2:

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

**XRES[bits 0,1, . . .n-1,n] = f2(XDOUT,n) = XDOUT[bits 0,1, . . .n-1,n] (with 30 < n < 128)
```

NOTE: Suggested length for RES is 128 bits (i.e. n = 127).

In SS and AUC, the XRES calculation is identical to RES.

CK[bits 0,1,...126,127] = f3(XDOUT) = XDOUT[bits 8,9,...126,127,0,1,...6,7]

IK[bits 0,1,...126,127] = f4(XDOUT) = XDOUT[bits 16,17,...126,127,0,1,...14,15]

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]
```

AK[bits 0,1,...46,47] = f4(XDOUT) -= XDOUT[bits 24,25,...70,71]

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 MACS (SS) are calculated from XDOUT and CDOUT this way:

```
\underline{\mathbf{X}}MAC[bits 0,1,...62, 63] = \underline{\mathbf{f1}}(\underline{\mathbf{X}}\underline{\mathbf{D}}\underline{\mathbf{OUT}},\underline{\mathbf{C}}\underline{\mathbf{D}}\underline{\mathbf{OUT}}) = \underline{\mathbf{M}}\underline{\mathbf{A}}\underline{\mathbf{CS}}[bits 0,1,...62, 63] = \underline{\mathbf{X}}\underline{\mathbf{D}}\underline{\mathbf{OUT}}[bits 0,1,...62,63]
```

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

-Step 5:

The SS calculates the authentication token **AUTN**:

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

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

8.1.2.2 Generation of re-synchronisation parameters in the USIM

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

```
<u>AMF_RESYNCH_ = AMF[bits 0,1,..14,15] = "1111 1111 1111 1111"</u>
```

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 considered in this description 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] || 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 $\mathbf{SQN}_{\underline{MS}} = \mathbf{AUTS}[\text{bits } 0, 1, \dots 46,47] \text{ XOR } \mathbf{AK}[\text{bits } 0, 1, \dots 46,47] \text{ where AUTS is the received re-synchronisation parameter.}$

Step 4:

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

<u>MAC-S[bits 0,1,...62, 63]</u> = **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.

The SS calculates the authentication token AUTN according to the test algorithm as specified in subclause 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 and XMAC parameters according to subclause 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.

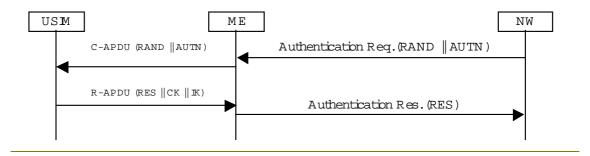


Figure 8.1.2.3.1: Network accepted by UE

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 subclause 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 subclause 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 and XMAC parameters according to subclause 8.1.2.1 (step 1 to 4).

Based on the received RAND parameter the test USIM calculates the RES, CK IK and XMAC parameters according to subclause 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").

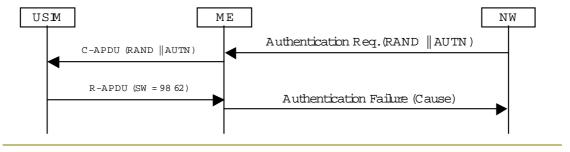


Figure 8.1.2.3.2: MAC failure cases

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 subclause 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 subclause 8.1.2.2 (step 1 to 5) and forward it to the ME.

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

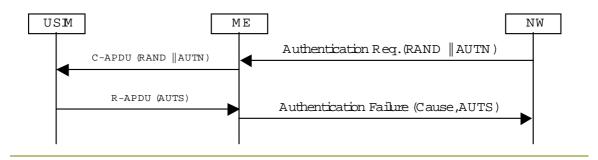


Figure 8.1.2.3.3: SQN failure case

8.2 Default Parameters for the test USIM

Ki:

The authentication key " K_{+} " will be chosen by the test house and will be non zero. The " K_{+} " value used by the SS will align with this value.

PIN Disabling:

The PIN enabled / disabled flag will be set to "PIN Disabled". This ensures that when the Test USIM is inserted into a UE the user will not be prompted for PIN entry.

<End of modified section>

3GPP TSG-T1 Meeting #10 Copenhagen, Denmark, 8-9 February, 2001

Tdoc T1-010084

3GPP TSG-T1/SIG Meeting #15

T1S-010020

Copenhagen, Denmark, 5-7 February 2001

CHANGE REQUEST		
*	34.108 CR 037	
For <mark>HELP</mark> on u	using this form, see bottom of this page or look at the pop-up text over the % symbols.	
Proposed change	affects: # (U)SIM	
Title: #	Updates to clause 9 of TS 34.108 v3.2.0	
Source: #	Matsushita Communication Industries	
Work item code: ₩	Date: ■ 5 February 2001	
Category: #	Release: # R99	
	Use one of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Use one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)	
Reason for change: To update the default message contents RRC messages, so as to be compatible with the latest version of RRC core specification (TS 25.331 version 3.5.0)		
Summary of chang	This CR provides an update to the existing RRC messages in clause 6.1 and clause 9 of TS 34.108 version 3.2.0, in accordance to the following CRs to RRC core specification (TS 25.331 version 3.4.1) approved during RAN2 #16 and RAN2#17 meetings. Changes to clause 6.1	
	1. CR-544r1: IE "CFN-SFN observed time difference" in IE "Cell measured results" is renamed to "Cell synchronisation information", while the same IE in IE "Cell reporting quantities" is renamed to "Cell synchronisation information reporting indicator". At the same time, all IEs in IE "Cell reporting quantities" are appended with "reporting indicator" to explicitly show that these are flags for reporting quantities, rather than the reported quantities themselves.	
	 2. CR-587r1: Many changes are carried out as detailed in the following paragraphs: "Inter-system measurement system information" in SIB 11 and SIB 12 are 	
	renamed to "Inter-RAT measurement system information".	

• "Intra-frequency measurement identity number" IE in SIB 11 and SIB 12 is

- renamed to "Intra-frequency measurement identity".
- 3. CR-596r1: Many changes are carried out as detailed in the following paragraphs:
 - Master Information Block is cleaned up. At the same time, the IE
 "Reference to other system information blocks and scheduling blocks" IE
 is designed such that it contains only scheduling information for
 Scheduling Block 1 (SB1) messages. The scheduling information for SIB
 1 to SIB 4 is designed to remain in MIB, while the scheduling information
 for the rest of the SIBs is moved to Scheduling Block (see next
 paragraph). This arrangement is made for 2 reasons: (1) MIBs are short
 and can easily fit into a single segment as required in TS 25.331, (2)
 SB1s can fit into two segments as proposed by ETSI.
 - Default content of Scheduling Block 1 (SB 1) messages is created. It contains the scheduling information for all SIBs.
 - IE "UE Timer and constants in connected mode" is added to SIB Type 1, while the same IE is removed from SIB Type 2.
 - IE "SIB4 Indicator" is added to SIB Type 3, IE "SIB6 Indicator" is added to SIB Type 5 and IE "SIB12 Indicator" is added to SIB Type 11. All 3 IEs are set to "TRUE".
 - IE "References to other system information blocks" are removed from all SIB messages, since it was decided by RAN2 that only MIB and SB 1 or SB 2 can contain system information scheduling information.
 - SIB Type 16 is created, but all IEs are still marked as [FFS]. Volunteers to help define the IE values are solicited (how about ETSI?).
- 4. CR-602: The following changes are made in accordance to this approved CR:
 - Timers T303 and T306, together with constant N303 are removed from IE
 "UE Timers and Constants in connected mode". At the same time, timers
 T316 and T317 are introduced so that the UE can detect an "out of
 service area" condition in URA_PCH or CELL_PCH state.
 - IEs "Intra-frequency cell info list" in SIB 11 and SIB 12 are revised.
 - IEs "Reporting cell status" in SIB 11 and SIB 12 are revised.
- 5. CR-611r2: IEs "ASC setting" in SIB 5 and SIB 6 are revised. The method used to indicate which sub-channel available to the UE during initial RACH access is changed. The new settings are designed such that all 12 sub-channels are available for UE to select, avoiding any bias in the Access Service Classes.
- 6. CR-615r2: A list of logical channels is proposed to be included into IE "Transport Format Set". This was done so that UE can configure the RLC PDU size for individual RBs carrying the logical channels, rather than having a single RLC PDU size for all logical channels mapped to a transport channel. The TFS for RACH and PCH transport channels, which are broadcasted in SIB 5 and SIB 6, are revised correspondingly.
- 7. CR-636: RAN1 has decided to eliminate the possibility of utilizing Secondary CPICH as a phase reference for AICH, PICH and S-CCPCH. Therefore, IE "Secondary Scrambling Code" is removed from IEs "AICH info", "PICH info" in SIB 5 and SIB 6. This IE is also set to "Not Present" in IE "Secondary CCPCH info" of SIB 5 and SIB 6.
- 8. CR-639: IE "Expiration Time Factor" is added to SIB 7, to allow the UE to

- defer the re-reading of SIB 7. This avoids the scenario when the UE spend too much time reading SIB 7 on BCH or FACH. The default value of 1 is used.
- 9. Other error corrections which are not related to any RAN2 CRs:
 - IE "Inter-frequency measurement system information" is omitted from SIB 11 and SIB 12. Hence for simplicity, the extraneous sub-IEs are not needed and removed.
 - MIB is revised to use the SIB scheduling mechanism, which was proposed by TTCN team and sent to T1-SIG e-mail reflector.
 - IE "FACH measurement occasion info" is not present in SIB 11 and SIB 12. Hence, the sub-IEs are removed for simplicity.
 - SIB 13 is added following the comments from ETSI. The IEs in this
 message are set to have identical values as that of SIB 1, since SIB 1 is
 used for UEs supporting GSM-MAP CN while SIB 13 is used by UEs
 supporting ANSI-41 CN. Notes: The values of some IEs are still [TBD],
 Volunteers to help define the IE values are solicited (how about ETSI?).
 - The downlink transmission power of PICH should be 5 dB lower than that
 of P-CPICH. Therefore, the value of IEs "PICH Power Offset" in SIB 5
 and SIB 6 should be –5 dB instead of 0 dB.

Changes to clause 9

- 10. CR-542: "Logical channel max loss" IE is deleted.
- 11. CR-543r1: The missing IE "NAS Synchronisation Indicator" is added to IE "RAB info". The value of this IE is set to "Not Present".
- 12. CR-545r1: IE "Timing indication" was previously absent in IE "Downlink DPCH info common for all RL", it is added and set to "Initialise". IE "CFN-targetSFN frame offset" is introduced as a conditional (but Not Present) IE in IE "Downlink DPCH info common for all RL".
- 13. CR-554r1: The signalled range for IE "BLER Quality value" is changed. The current BLER quality value (0.00) is replaced by 10^{-6.3}.
- 14. CR-573r1 (and r4) and CR-599: RAN2 decided that the "flow id" concept is not necessary and thus removed. For UPLINK DIRECT TRANSFER and INITIAL DIRECT TRANSFER messages, IEs "Service Descriptor" and "Flow Identifier" are removed. IE "Intra Domain NAS Node Selector" is inserted into INITIAL DIRECT TRANSFER message. SIGNALLING CONNECTION RELEASE message is removed. Instead it will be explicitly stated in the test cases of clause 8 of TS 34.123-1 if needed.
- 15. CR-597r5: In RRC CONNECTION SETUP (Transition to CELL_DCH) message, the mandatory present IE "RRC State Indicator" is added and set to the enumerated value of "CELL_DCH".
- 16. CR-598r1: IE "CHOICE Used paging identity" is added to IE "Paging Record" in PAGING TYPE 1 messages. All instances of this IE is set to "CN identity" since IMSI or TMSI or P-TMSI are used to page the UEs in idle mode.
- 17. CR-602: The following modifications are made:
 - IEs "DRx Indicator" in RADIO BEARER SETUP and RADIO BEARER RELEASE messages are replaced by IE "RRC State Indicator". The values of these IE are set to "CELL_DCH".
 - IE "RRC transaction identifier" is introduced into many uplink and

downlink messages.

- 18. CR-606: Several measures are approved by RAN2 in order to reduce the size of IEs "RLC info" and "RB mapping info" transmitted in the downlink. As a result of these optimisation efforts, the corresponding changes to the default message contents need to be carried out:
 - IE "Downlink RLC logical channel info" needs to be added to IE "RB mapping info". RADIO BEARER SETUP, RADIO BEARER RELEASE and RRC CONNECTION SETUP messages are affected.
 - IEs "RLC info" are modified to become IEs "CHOICE RLC info type" in RADIO BEARER SETUP message.
- 19. CR-608r1: IE "Integrity Check Info" in RRC CONNECTION RELEASE message should be absent if the message is transmitted on downlink CCCH.
- 20. CR-609r1: Optional IE "COUNT-C activation time" is added to RADIO BEARER SETUP COMPLETE and RADIO BEARER RELEASE COMPLETE messages. The presence of this IE is conditional on whether the UE transits to CELL_DCH state and also existence of RLC-TM RB(s). Previously missing IEs such as "Interity check info", "Uplink integrity protection activation info" and "Radio bearer uplink ciphering activation time info" are added. Also, IE "Activation time for DPCH" in IE "Ciphering mode info" is renamed to "Ciphering activation time info".
- 21. CR-615r2: IE "CHOICE RLC size list" is added into IE "RB mapping info". All instances of this IE are set to "All" so that all the RLC sizes listed in the TFS can be used by the UE. Also, IEs "Transport Format Set" in IE "Added or reconfigured UL TrCH" are revised in accordance to this CR.
- 22. CR-622r1: An optional IE "Rplmn information" is added to RRC CONNECTION RELEASE message. Since no extra requirements and assumptions are catered in the test cases to help the UE increase the speed of RPLMN selection after the release of RRC connection, this IE is set to "Not Present". Also, RRC CONNECTION RELEASE message can also be transmitted using transparent mode (TM), instead of only through unacknowledged mode (UM). This facility is added.
- 23. CR-625: An optional IE "RB with PDCP information list" is added into RADIO BEARER SETUP, RADIO BEARER SETUP COMPLETE, RADIO BEARER RELEASE and RADIO BEARER RELEASE COMPLETE messages. These IEs are set to "Not Present" for DL messages and "Not checked" for UL messages at the moment.
- 24. CR-629r1: An optional IE "Signalling Connection release indicator" is added into downlink RADIO BEARER RELEASE message. This IE is set to "Not Present" as it's not desired to release a RB and a signalling connection simultaneously in the test cases.

Other changes

 All "RB identity", "TrCH identity" and "Logical channel identity" IEs are revised. This is done so that the identity numbers used in TS 34.108 are inline with those used for TTCN ATS development (TS 34.123-3).

Consequences if not approved:

Test specifications will not be compatible with core specifications.

Clauses affected:	36.1 , 9
Other specs affected:	X Other core specifications X Test specifications O&M Specifications
Other comments:	# #

How to create CRs using this form:

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

- 1) Fill out the above form. The symbols above marked # contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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 Simulated network environments

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

This version of the specification covers the simulation of the Single Mode FDD Network only to align with the Release 99 requirements. It will need to be extended in a later version to cover the Single Mode TDD network case. 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.

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

Contents of Master Information Block PLMN	type is the case of GSM-MAP
- MIB value tag	1-(1 to 8)
- Supported PLMN types	
- PLMN type	GSM-MAP
- PLMN identity (GSM-MAP)	
- MCC digit	Set to the same Mobile Country Codes(3 digit)
_ Moo digit	According to the contents of stored in the test USIM card.
MNC digit	Set to the same Mobile Network Codes(2-3 digit)
WING digit	According to the contents of stored in the test USIM card.
- ANSI-41 Core Network information	Not Present
- P REV(Protocol revision level)	Not Fresent
- MIN_P_REV(Minimum protocol revision level)	
SID(System identification)	
- NID(Network identification)	
- References to other system information blocks	
and scheduling blocks	
- References to other system information	
blocks	
- Scheduling information	
- CHOICE Value tag	4
- Cell Value tag	1
- Scheduling	
- SEG_COUNT	2 16 2
- SIB REP	10 2
- SIB_POS	_
- SIB POS offset info	
- SIB OFF	2 Schoduling Block 1
- SIB type	Scheduling Block 1
- Scheduling information	DI MNI Value toa
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	$\left \frac{1}{2}\right $
- SEG COUNT	<u>2</u> 128
- SIB_REP - SIB_POS	
- SIB POS offset info	10
- SIB_OFF	2
- SIB type SIBs only	2 System Information Type 1
- Scheduling information	System mornation Type 1
- CHOICE Value tag	Cell Value tag
- Cell Value tag	
- SEG_COUNT	$\left \frac{1}{1} \right $
- SIB REP	128
- SIB POS	14
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 2
- Scheduling information	<u> </u>
- CHOICE Value tag	Cell Value tag
- Cell Value tag	
- SEG_COUNT	1 1 64
- SIB_REP	<u>-</u> 64
- SIB_POS	<u>6</u>
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 3
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	
- SEG COUNT	1 1 64
- SIB_REP	64
- SIB_POS	<u>38</u>
SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 4
- Scheduling information	

SIB type	Type1
PLMN Value tag	1 (1 to 256)
Cell Value tag	Not Present
SEG_COUNT	1 (1 to 16)
SIB_REP	
SIB_POS	
SIB_OFF	
SIB type	Type2
PLMN Value tag	1 (1 to 256)
Cell Value tag	Net Present
SEG_COUNT	1 (1 to 16)
SIB_REP	
SIB POS	
SIB_OFF	
SIB type	Typo2
	Type3
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
- SIB REP	
SIB_POS	
SIB_OFF	
	Type4
SIB type	Type4
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
- SIB REP	
SIB POS	
SIB-OFF	
	Time 5
SIB type	Type5
PLMN Value tag	Not Present
	1 (1 to 4)
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
SEG_COUNT SIB_REP	
SEG_COUNT SIB_REP SIB_POS	
SEG_COUNT SIB_REP	
SEG_COUNT SIB_REP SIB_POS	1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type	
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag	1 (1 to 16) Type6 Not Present
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag	1 (1 to 16) Type6 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT	1 (1 to 16) Type6 Not Present
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP	1 (1 to 16) Type6 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS	1 (1 to 16) Type6 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF	1 (1 to 16) Type6 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type	1 (1 to 16) Type6 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag	Type6 Not Present 1 (1 to 16) Type7 Not Present
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT	Type6 Not Present 1 (1 to 16) Type7 Not Present
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_POS	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_POS SIB_POS SIB_POS SIB_OFF	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_POS SIB_POS SIB_POS SIB_OFF SIB type	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_POS SIB_POS SIB_POS SIB_OFF SIB type PLMN Value tag	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_POS SIB_POS SIB_POS SIB_OFF SIB type	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_POS SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag Cell Value tag Cell Value tag	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_REP SIB_POS SIB_POS SIB_OFF SIB_TOS SIB_T	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_REP SIB_POS SIB_POS SIB_POS SIB_OFF SIB_TOS SIB_T	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB_TYPE PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB_TYPE SIB_POS SIB_TYPE	1 (1 to 16) Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_POS SIB_UFF SIB_TEP SIB_TEP SIB_TEP SIB_TEP SIB_TEP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_POS SIB_OFF	Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 4) 1 (1 to 5)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SIB_POS SIB_TEP SIB type PLMN Value tag Cell Value tag Cell Value tag SIB_POS SIB_POS SIB_POS SIB_POS SIB_POS SIB_POS SIB_OFF SIB type	Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB_TEP SIB_REP SIB_POS SIB_POS SIB_OFF SIB_TEP	Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 4) 1 (1 to 5)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SIB_POS SIB_TEP SIB type PLMN Value tag Cell Value tag Cell Value tag SIB_POS SIB_POS SIB_POS SIB_POS SIB_POS SIB_POS SIB_OFF SIB type	Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB_TEP SIB_REP SIB_POS SIB_POS SIB_OFF SIB_TEP	Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 1) 1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB_TEP SIB_POS SIB_POS SIB_POS SIB_OFF SIB_TEP	Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16)
SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag SEG_COUNT SIB_REP SIB_POS SIB_OFF SIB_TEP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_POS SIB_OFF SIB type PLMN Value tag Cell Value tag Cell Value tag SEG_COUNT SIB_REP SIB_TEP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_REP SIB_POS SIB_OFF SIB_TYPE SIB_TYP	Type6 Not Present 1 (1 to 4) 1 (1 to 16) Type7 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16) Type8 Not Present 1 (1 to 4) 1 (1 to 16)

11	i.
SIB_OFF	
— SIB type	Type10
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
- SIB_REP	
SIB_POS	
- SIB_OFF	
SIB type	Type11
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
- SIB REP	
SIB POS	
 SIB_OFF	T 40
SIB type	Type12
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
SIB_REP	1 (1 to 10)
SIB_POS	
SIB_OFF	
SIB type	Type13
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
SIB_REP	
SIB_POS	
- SIB OFF	
SIB type	Type13.1
PLMN Value tag	Net Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
- SIB REP	
SIB_POS	
SIB_OFF	
SIB type	Type13.2
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
	1 (1 to 10)
SIB_REP	
SIB_POS	
SIB_OFF	
SIB type	Type13.3
PLMN Value tag	Not Present
Coll Value to a	
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
SIB_REP	
SIB_POS	
SIB_OFF	
- SIB type	Type13.4
SID type	
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
SIB REP	, ,
-	
SIB_POS	
SIB_OFF	
SIB type	Type14
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4)
SEG_COUNT	1 (1 to 16)
	1 (1 to 10)
SIB_REP	
••	

SIB_POS	
SIB_OFF 	Type15
PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4) 1 (1 to 16)
SIB_REP	1 (1 6 10)
SIB_POS SIB_OFF	
— SIB type	Type16
PLMN Value tag	Not Present
Cell Value tag	1 (1 to 4) 1 (1 to 16)
SIB_REP	1 (1 10 10)
SIB_POS	
SIB_OFF	

Contents of Scheduling Block 1

Contents of Scheduling Block 1	
- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	
- SEG COUNT	$\left \frac{1}{3} \right $
- SIB_REP	128
- SIB_POS	26
- 3ID_FO3	20
- SIB_POS offset info	
SIB_OFF	<u>2</u>
- SIB_OFF	2 2
- SIB type SIBs only	System Information Type 5
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	$\frac{1}{3}$
- SIB_REP	128
- SIB_POS	42
- SIB_POS offset info	72
- SIB_OFF	2
- SIB_OFF	2 2
- SIB_OFF - SIB type SIBs only	System Information Type 6
	System miorination Type o
- Scheduling information - CHOICE Value tag	Call Value tag
	Cell Value tag
- Cell Value tag	$\left \frac{1}{4}\right $
- SEG_COUNT	1
- SIB REP	128
- SIB POS	22
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 7
- Scheduling information	
- CHOICE Value tag	Cell Value tag
Cell Value tag	$\frac{1}{2}$
- SEG_COUNT	
- SIB REP	<u>128</u>
SIB_POS	<u>58</u>
SIB_POS offset info	
SIB_OFF	<u>2</u>
- SIB type SIBs only	System Information Type 11
<u>- Scheduling information</u>	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG COUNT	<u>2</u>
- SIB_REP	128
- SIB POS	106
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	<u>6</u>
- SIB_REP	128
- SIB POS	74
- SIB_POS offset info	
- SIB OFF	2
- SIB OFF	<u></u>
- SIB OFF	<u>←</u> Ω
	<u>\oldsymbol{\delta}{1}</u>
- SIB_OFF - SIB_OFF	2 2 8 4 2
SIB type SIBs only	System Information Type 16

Contents of System Information Block type1 (supported PLMN type is the case of GSM-MAP)

, , , , , , , , , , , , , , , , , , ,	toapported! Livil type is the case of Colvi Will I
- CN common GSM-MAP NAS system information	
• 1	Contains the DLMN Identity and Lanation Area Contains
GSM-MAP NAS system information	Contains the PLMN Identity and Location Area Code
MCC digit	Set to the same Mobile Country Code(3 digit)
	According to the contents of stored in test USIM card.
MNC digit	Set to the same Mobile Network Code(2-3 digit)
	According to the contents of stored in test USIM card.
Location area code	0001H
11	000111
- CN domain system information	50
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	
 GSM-MAP NAS system information 	T.B.D
- CN domain specific DRX cycle length	7
coefficient	
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
	GOWINA
- CN domain specific NAS system information	TDD
- GSM-MAP NAS system information	T.B.D
- CN domain specific DRX cycle length	7
coefficient	
- UE Timers and constants in CELL_DCH	
-T304	Not Present – Use Default
-N304	7
-T308	Not Present – Use Default
-T309	8 seconds
-T310	Not Present
-N310	Not Present
-T311	Not Present
-T313	15 seconds
-N313	200
- T314	20 seconds
- T315	1800 seconds
-1313 - N315	1 000 seconds
1	1000
- UE Timers and constants in idle mode	400
-T300 Nacc	400 milliseconds
-N300	7
-T312	10 seconds
- N312	200
 UE Timers and constants in connected mode 	
<u>- T301</u>	2000 milliseconds
<u>- N301</u>	<u>2</u>
<u>- T302</u>	4000 milliseconds
<u>- N302</u>	<u>3</u>
<u>- T304</u>	1000 milliseconds
- N304	3
- T305	60 minutes
- T307	50 seconds
- T308	320 milliseconds
<u>- T309</u>	8 seconds
- T310	320 milliseconds
- N310	5
- T311	500 milliseconds
<u>- T312</u>	5 seconds
- N312	200
<u>- T313</u>	10 seconds
- N313	20
<u>- 1314</u>	20 seconds
<u>- 1314</u> <u>- T315</u>	30 seconds
- N315	200
14010	200

l	<u>- T316</u>	50 seconds
l	- T317	1800 seconds

Contents of System Information Block type2

- URA identity list	Only 1 URA identity broadcasted
- URA identity	0000 0000 0000 0001B
- UE Timers and constants in connected mode	0000 0000 0000 00012
- T301	2000 milliseconds
- N301	2
- - T302	4000 milliseconds
- N302	3
- - T303	2000 milliseconds
- N303	3
- T304	1000 milliseconds
- N304	3
- T305	60 minutes
- T306	120 minutes
- T307	50 seconds
- T308	320 milliseconds
- T309	8 seconds
- T310	320 milliseconds
- N310	5
- T311	500 milliseconds
- T312	5 seconds
- N312	200
- T313	10 seconds
- N313	200
- T314	20 seconds
- T315	30 seconds
N315	200

Contents of System Information Block type3

Contents of System Information Block type3	
- References to other system information blocks	Not Present
- SIB4 indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	0000 0000 0000 0000 0000 00012
- Mapping info	
- Mapping List	
- RAT	UTRA FDD
Mapping Function Parameter List	1
Function type	Linear -(0)
Map_parameter_1	1
Map_parameter_1 Map_parameter_2	
Wap_parameter_2 Upper_limit	1
- Cell selection_and_reselection_quality	CPICH Ec/N0
measure	OF ICIT EC/NO
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- Sintersearch - SsearchHCS	10 dB
- SsearchHCS	Not PresentFor conformance testing in Japan, this IE is
- IVAT LIST	omitted. For conformance testing in Japan, trils is is
	this IE is present with the following values.
- RAT identifier	GSM
- KAT identifier - Ssearch,RAT	-105 dB
- Search, KAT - SHCS.RAT	Not Present
- Slimit,ShearchRAT	Not Present
- Qhyst1s	0 dB
- Qhyst2s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	0 00001100
- HCS_PRIO	0
- QHCS	0
- TCRMAX	Not used
- NCR	Not Present
- TCMAXHyst	Not Present
- Maximum allowed UL TX power	33dBm
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell Access Restriction	
- Cell barred	Not barred
- Cell Reserved for operator use	Not reserved
- Cell Reserved for SoLSA exclusive use	Not reserved
- 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 - Access Class Barred15	Not barred Not barred
- 700622 CIA22 DAILEGIS	ויטנ טמווכט

Contents of System Information Block type4 In connected mode-(similar to SIB type3)

Contents of System Information Block type4	In connected mode (similar to SIB type3)
- References to other system information blocks	Not Present
- Cell identity	0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping Info	
- Mapping List	
RAT	UTRA FDD
Mapping Function Parameter List	Not Present
Function type	<u>Linear</u>
Map_parameter_1	1
Map_parameter_2	$\begin{bmatrix} \frac{1}{1} \end{bmatrix}$
Upper_limit	<u>1</u>
- Cell_selection_and_reselection_quality	CPICH Ec/N0
measure	
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	10 dB
- RAT List	For conformance testing in Japan, this IE is omitted. For
	conformance testing in European countries, this IE is
DAT identifier	present with the following values.
- RAT identifier	Not PresentGSM
- Ssearch,RAT	-105 dB
- SHCS,RAT	Not Present
- Slimit,ShearchRAT	Not Present 0 dB
- Qhyst1s - Qhyst2s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	0 Seconds
- HCS_PRIO	0
- QHCS	0
- TCRMAX	Not used (not used, 30, 60, 120, 180, 240)
- NCR	Not Present
- TCMAXHyst	Not Present
- Maximum allowed UL TX power	33dBm
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	115 dBm
- Cell Access Restriction	
- Cell barred	Not barred (not barred, barred)
- Access Class Barred	Not barred (not barred, barred)
- Cell Reserved for operator use	Not reserved (reserved, not reserved)
- Cell Reserved for SoLSA exclusive use	Not reserved (reserved, not reserved)
- 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 - Access Class Barred7	Not barred
- Access Class Barred7 - Access Class Barred8	Not barred Not barred
- Access Class Barred8 - Access Class Barred9	Not barred
- Access Class Barred10	Not barred
- Access Class Barred10	Not barred
- Access Class Barred12	Not barred
- Access Class Barred12	Not barred
- Access Class Barred14	Not barred
- Access Class Barred15	Not barred
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Contents of System Information Block type
- References to other system information blocks
- SIB6 indicator
- PICH Power offset
- CHOICE Mode
AICH Power offset
- Primary CCPCH info
- TX Diversity indicator
- PRACH system information list
- PRACH system information
- PRACH info
- CHOICE mode
- Available Signature
- Available SF
 Preamble scrambling code number
- Puncturing Limit
 Available Sub Channel number
- Transport Channel Identity
- RACH TFS
 CHOICE Transport channel type
 Dynamic Transport format information
— Number of Transport blocks
- RLC size
 Number of TB and TTI List
 Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
 Semi-static Transport Format information
- Transmission time interval
 Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- RACH TFCS
- Normal
- TFCI Field 1 information
 CHOICE TFCS representation
 TFCS addition information

Addition

FDD <u>ALL</u>

Not Present **TRUE** 0-5 dB **FDD** 0dB

FALSE

FDD

'0000 0000 1111 1111'B

Common transport channels (This IE is repeated for TFI number) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set

'1111 1111 1111'B

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set (This IE is repeated for TFC number.)

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

Signalled Gain Factor

0

Not Present 0dB

0 (ASC#0) 7 (ASC#0) '1111'B0 (ASC#0)

11 (ASC#0) 0 (ASC#1) 7 (ASC#1) '1111'B0 (ASC#1)

10 (ASC#1) 0 (ASC#2)

- CTFC information

- CHOICE CTFC Size

- Power offset information

- CHOICE Gain Factors

- Gain factor ßc

- Gain factor ßd

- Reference TFC ID

- Power offset Pp-m

- PRACH partitioning

- Access Service Class

- ASC Settings

- Available signature Start Index

- Available signature End Index

- Available Assigned sSub-channel Start

IndexNumber

- Available sub-channel End Index

- Available signature Start Index

- Available signature End Index

- Available Assigned sSub-channel Start

IndexNumber

Available sub-channel End Index

- Available signature Start Index

 Available signature End Index 	7 (ASC#2)
 Available Assigned sSub-channel Start 	<u>'1111'B0 (ASC#2)</u>
Index Number	
 Available sub-channel End Index 	9 (ASC#2)
 Available signature Start Index 	0 (ASC#3)
 Available signature End Index 	7 (ASC#3)
 Available Assigned sSub-channel Start 	<u>'1111'B</u> 0 (ASC#3)
IndexNumber	
Available sub-channel End Index	8 (ASC#3)
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Available Assigned sSub-channel Start	<u>'1111'B</u> 0 (ASC#4)
IndexNumber	- (100 H)
- Available sub-channel End Index	7 (ASC#4)
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Available Assigned sSub-channel Start	<u>'1111'B</u> 0 (ASC#5)
IndexNumber	0 (4.00 (15)
Available sub-channel End Index	6 (ASC#5)
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
- Available Assigned sSub-channel Start	<u>'1111'B</u> 0 (ASC#6)
IndexNumber	5 (400/10)
Available sub-channel End Index	5 (ASC#6)
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Available <u>Assigned</u> <u>sS</u> ub-channel Start	<u>'1111'B</u> 0 (ASC#7)
IndexNumber - Available sub-channel End Index	4 (40047)
	4 (ASC#7)
- Persistence scaling factor	0.0 /for 0.00#3)
- Persistence scaling factor	0.9 (for ASC#2)
 Persistence scaling factor Persistence scaling factor 	0.9 (for ASC#3)
	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
Persistence scaling factorPersistence scaling factor	0.9 (for ASC#6) 0.9 (for ASC#7)
S .	0.9 (101 A3C#1)
AC-to-ASC mapping tableAC-to-ASC mapping	6 (400 0)
- AC-to-ASC mapping - AC-to-ASC mapping	6 (AC0-9) 5 (AC10)
- AC-to-ASC mapping - AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping - AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping - AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping - AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	Reference to clause 6.10 Parameter Set
- Constant value	Reference to clause 6.10 Parameter Set
- PRACH power offset	Treference to clause 6.101 afainteter Set
- Power Ramp Step	3dB
- Preamble Retrans Max	2
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
- AICH info	10 3101
— Secondary scrambling code	1 (1 to 15)
- Channelisation code	SF-1(SF is reference to clause 6.10 Parameter Set)
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system info	Ĭ
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
coolinary or for fillio	1.151.155011

- Secondary scrambling code
- Channelisation code
- STTD indicator
- Secondary scrambling code
- STTD indicator
- Spreading factor
- Code number
- Pilot symbol existence
- TFCI existence
- Fixed or Flexible position
- Timing offset
- TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS addition information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- FACH/PCH information
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
 - Dynamic Transport format information
- Number of Transport blocks
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- CTCH indicator
- PICH info
- -- Secondary scrambling code
- Channelisation code
- Number of PI per frame
- STTD indicator
- CBS DRX Level 1 information

1-Not Present

FALSE

Reference to clause 6.10 Parameter Set

SF-1(SF is reference to clause 6.10 Parameter Set)

FALSE

TRUE

Flexible

0

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

Addition

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

Refer to clause 6.10 Parameter Set

Not Present

12 (for PCH)

(PCH)

Common transport channels

(This IE is repeated for TFI number.)

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

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

FDD

ALL

Reference to clause 6.10 Parameter Set

132 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference to clause 6.10 Parameter Set

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

Reference to clause 6.10 Parameter Set

FDD

ALL

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

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

FALSE

2

SF-1(SF is reference to clause 6.10 Parameter Set)

18 FALSE

Not Present

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

- References to other system information blocks
- PICH power offset
- CHOICE Mode
- AICH power offset
- CSICH Power offset
- Primary CCPCH info
- TX Diversity indicator
- PRACH system information list
- PRACH system information
- PRACH info
- CHOICE mode
- Available Signature
- Available SF
- Preamble scrambling code number
- Puncturing Limit
- Available Sub Channel number
- Transport Channel Identity
- RACH TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- RACH TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS addition information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- CHOICE Gain Factors
- Gain factor &c
- Gain factor ßd
- Reference TFC ID
- Power offset Pp-m
- PRACH partitioning
- Access Service Class - ASC Settings
 - Available signature Start Index
- Available signature End Index
- Available-Assigned sSub-channel Start

IndexNumber

- Available sub-channel End Index
- Available signature Start Index
- Available signature End Index
- Available Assigned sSub-channel Start

IndexNumber

- Available sub-channel End Index
- Available signature Start Index

Not Present

0-5 dB

FDD

0 dB **Not Present**

FALSE

'0000 0000 1111 1111'B

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

'1111 1111 1111'B

Common transport channels

(This IE is repeated for TFI number)

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

Reference to clause 6.10 Parameter Set

FDD

<u>ALL</u>

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

(This IE is repeated for TFC number.)

Addition

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

Signalled Gain Factor

0 Not Present

0dB

0 (ASC#0) 7 (ASC#0)

'1111'B0 (ASC#0)

11 (ASC#0)

0 (ASC#1)

7 (ASC#1)

'1111'B0 (ASC#1)

10 (ASC#1)

0 (ASC#2)

- Available signature End Index	7 (ASC#2)
- Available Assigned sSub-channel Start	<u>'1111'B0 (ASC#2)</u>
IndexNumber	0 (4.00 (10)
Available sub-channel End Index	9 (ASC#2)
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Available-<u>Assigned</u> <u>sS</u>ub-channel Start IndexNumber	<u>'1111'B</u> 0 (ASC#3)
- Available sub-channel End Index	0 (\\CC#2\)
- Available signature Start Index	8 (ASC#3) 0 (ASC#4)
- Available signature Start Index - Available signature End Index	7 (ASC#4)
- Available signature End Index - Available Assigned sSub-channel Start	'1111'B0 (ASC#4)
IndexNumber	<u> </u>
- Available sub-channel End Index	7 (ASC#4)
- Available signature Start Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- Available Assigned s Sub-channel Start	<u>'1111'B0 (ASC#5)</u>
Index Number	
- Available sub-channel End Index	6 (ASC#5)
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)
 Available Assigned sSub-channel Start 	<u>'1111'B</u> 0 (ASC#6)
IndexNumber	
Available sub-channel End Index	5 (ASC#6)
 Available signature Start Index 	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
- Available Assigned sSub-channel Start	<u>'1111'B0 (ASC#7)</u>
IndexNumber	4 (4.00 (17)
Available sub-channel End Index	4 (ASC#7)
- Persistence scaling factor	0.0 // 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) 0.9 (for ASC#5)
Persistence scaling factor Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	Not Present
AC-to-ASC mapping	1000
AC-to-ASC mapping	
- Primary CPICH DL TX power	Reference to clause 6.10 Parameter Set
- Constant value	Reference to clause 6.10 Parameter Set
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	2
- RACH transmission parameters	2
- Mmax - NB01min	2 3 slot
- NB01min	
- NBOTMax - AICH info	10 slot
- Secondary scrambling code	1 (1 to 15)
- Channelisation code	SF-1(SF is reference to clause 6.10 Parameter Set)
- STTD indicator	FALSE
- AICH transmission timing	0
- Secondary CCPCH system info	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
•	

- Secondary scrambling code
- Channelisation code
- STTD indicator
- Secondary scrambling code
- STTD indicator
- Spreading factor
- Code number
- Pilot symbol existence
- TFCI existence
- Fixed or Flexible position
- Timing offset
- TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS addition information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- FACH/PCH information
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- Transport Channel Identity
- TFS
- CHOICE Transport channel type
 - Dynamic Transport format information
- Number of Transport blocks
- RLC Size
- Number of TB and TTI List
- Number of Transport blocks
- CHOICE Mode
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- CTCH indicator
- PICH info
- -- Secondary scrambling code
- Channelisation code
- Number of PI per frame
- STTD indicator
- CBS DRX Level 1 information

1-Not Present

FALSE

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

FALSE

TRUE

Flexible

n

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

Addition

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

Refer to clause 6.10 Parameter Set

Not Present

12 (for PCH)

(PCH)

Common transport channels

(This IE is repeated for TFI number.)

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

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

FDD

ALL

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set 132 (for FACH)

(FACH)

Common transport channels

(This IE is repeated for TFI number.)

Reference to clause 6.10 Parameter Set

<u>FDD</u>

<u>ALL</u>

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

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

FALSE

2

SF-1(SF is reference to clause 6.10 Parameter Set)

18 FALSE Not Present

Contents of System Information Block type7

CHOICE Mode	FDD
UL interference	-100dBm (-110 to70 dBm)
- PRACHs listed in system information block	
type5	
- Dynamic persistence level	2 (1 to 8)
- PRACHs listed in system information block	
type6	
- Dynamic persistence level	2 (1 to 8)
- Expiration Time Factor	Not Present – use default value of 1

Contents of System Information Block type8,9

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

Contents of System Information Block type10

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

Contents of System Information Block type11

_	Contents of System information block type i	
	- References to other system information blocks	Not Present
	- SIB12 indicator	TRUE
ı	- FACH measurement occasion info	Not Present
	k_UTRA Other RAT present in intersystem cell info	
	- RAT type	
	- k_Intrer_Rat	
	Measurement control system information	
	- Use of HCS	Not used
	 Cell_selection_and_reselection_quality 	CPICH Ec/N0
	measure	
	- Intra-frequency measurement system	
	information	
П	- Intra-frequency measurement identity number	0
ı	Intra-frequency cell info list CHOICE Removed-intra-frequency cells	Not PresentRemove no intra-frequency cells
	removal	Not i resem <u>itemove no intra-frequency cens</u>
	- Intra-frequency cell id	
'	- New intra-frequency cells	
	- Intra-frequency cell id	0
	- Cell info	
	- Cell individual offset	0dB(-10,-9.510 by step of 0.5)
	- Reference time difference to cell	Not Present
	- Primary CPICH info	The current value plue FO/Mhan the current call is sall
	- Primary scrambling code	The current value plus 50(When the current cell is cell No.8 then minus 50)
	- Primary CPICH TX power	Not Present
	- Read SFN indicator	TRUE
	- TX Diversity indicator	FALSE
	- Cell Selection and Re-selection info	
	- Qoffset1 _{s,n}	0 dB
	- Qoffset2s,n	0 dB
	 Maximum allowed UL TX power 	33 dBm
	- HCS neighbouring cell information	Not Present
	—- HCS_PRIO	
	——————————————————————————————————————	
	- Penalty time	
	- Temporary_offsets	
	- Temporary_offset1	
	- Temporary_offset2	
'	- CHOICE mode	
	- Qqualmin	
	- Qrxlevmin	
	- Intra-frequency measurement quantity	
	- Filter coefficient	0 CPICH RSCP
	Measurement quantity Intra-frequency reporting quantity for RACH	OF TOTA MOOF
	Reporting	
	-SFN-SFN observed time difference	No report
	- Reporting quantity	No report
	- Maximum number of reported cells on RACH	No report
	- Reporting information for state CELL_DCH	
	- Measurement Report Transfer	Acknowledged mode RLC
	- Periodic Reporting / Event Trigger Reporting	Event trigger
	Mode	
	Intra-frequency reporting quantity Reporting quantities for active set cells	
	- SFN-SFN observed time difference	No report
	reporting indicator	The report
11	- sporting maioator	ı

- Cell synchronisation information reporting indicator - Cell identity reporting indicator CHOICE mode - CPICH Ec/N0 reporting indicator CPICH RSCP reporting indicator - Pathloss reporting indicator CFN-SFN observed time difference - Reporting quantities for monitored set cells - SFN-SFN observed time difference reporting indicator - Cell synchronisation information reporting indicator - Cell identity reporting indicator - CHOICE mode CPICH Ec/No reporting indicator - CPICH RSCP reporting indicator - Pathloss reporting indicator CFN-SFN observed time difference - Reporting quantities for detected set cells SFN-SFN observed time difference Cell identity - CPICH Ec/NO - CPICH RSCP - Pathloss CFN-SFN observed time difference - Intra-frequency measurement reporting criteria

FALSE

TRUE

FALSE

TRUE

FALSE

TRUE

No report

FALSE

TRUE

TRUE **FALSE**

FALSE

Not Present

FDD FALSE

FDD

5dB

Not Present

1.0

0.0

T.B.D(-125..165)

Not Present(not applicable, 1, 2, 3, 4, 5, 6, 7)

640(0,10,20,40,60,80,100,120,160,200,240,320,640,1280 +2560,5000)

Infinity(1,2,4,816,32,64,Infinity)

0(0.250.500.1000.2000.4000.8000.16000 milliseconds)

 $\underline{\text{Report cell Ψw$}} \underline{\text{w}} \underline{\text{ithin active set and/or monitored cells on}}$ used frequency-and within monitored cells on non-used frequency

Not Present

monitored set cells

- cells forbidden to affect reporting range(optional in case of 1a,1b)

- Primary CPICH info

1a,1b,1e,1f)

- Primary scrambling code
- W(optional in case of 1a,1b)
- Hysteresis (mandatory in case of

- parameters required for each event - intra-frequency event identity

- Triggering condition(mandatory in case of

- Reporting Range(optional in case of 1a,1b)

- 1a,1b,1c,1d,1g,1h,1l,1j)
- Threshold used frequency (in case of 1e,1f,1h,1i,1j)
- Reporting deactivation threshold(mandatory) in case of 1a)
 - Replacement activation

threshold(mandatory in case of 1c)

- Time to trigger
- Amount of reporting
- Reporting interval
- Reporting cell status
- CHOICE reporting cell

- Maximum number of reporteding cells type

2

- Inter-frequency measurement system information
- Inter-frequency measurement identity number
- Inter-frequency cell info list
- Removed inter-frequency cells
- Inter-frequency cell id

New inter-frequency cells	
—- Inter-frequency cell id	
Frequency info	
UARFCN uplink(Nu)	
—- UARFCN downlink(Nd)	
Cell info	
—- Cell individual offset	
Reference time difference to cell	
Primary CPICH info	
Primary scrambling code	
- Primary CPICH TX power	
Read SFN indicator	
- TX Diversity indicator	
- Cell Selection and Re-selection info	
—- Qoffsets,n	
- Maximum allowed UL TX power	
HCS neighbouring cell information	
— - HCS_PRIO	
——- QHCS	
- Penalty time	
— - Temporary_offsets	
——- Temporary_offset1	
—- CHOICE mode	
— - Qqualmin	
Qrxlevmin	
Inter-frequency measurement quantity	
Intra-frequency reporting criteria	
—- Intra-frequency measurement quantity	
—- Filter coefficient	
Measurement quantity	
—- Inter-frequency reporting criteria	
—- Inter-frequency measurement_quantity	
—- Filter coefficient	
— - Measurement quantity for frequency quality	
estimate	
Inter-frequency measurement reporting	
criteria	
- Inter-system-RAT measurement system	Not Present
information	
- Traffic volume measurement system	Not Present
information	
- UE internal measurement system information	Not Present

Contents of System Information Block type12 in connected mode (similar to SIB type11)

!_	Contents of Cystem mornation Blook type 12	coc. (c
	- References to other system information blocks	Not Present
•	- FACH measurement occasion info	Not Present
	- k UTRA	
	- Other RAT present in intersystem cell info	
	- RAT type	
П	- k_Intrer_Rat	
	- Measurement control system information	
	- Use of HCS	Not used
	 Cell_selection_and_reselection_quality 	CPICH Ec/N0
	measure	
	- Intra-frequency measurement system	
	information	
ıl	- Intra-frequency measurement identity-number	0
H		U
ıl	- Intra-frequency cell info list	N (D (D
	- Removed CHOICE intra-frequency cells	Not PresentRemove no intra-frequency cells
	<u>removal</u>	
	Intra-frequency cell id	
	- New intra-frequency cells	
	- Intra-frequency cell id	0
	- Cell info	
Ш	- Cell individual offset	0dB (-10,-9.510 by step of 0.5)
•	- Reference time difference to cell	Not Present
	- Primary CPICH info	
	- Primary scrambling code	The current value plus 50(When the current cell is cell
	Timary sorambling code	No.8 then minus 50)
	Drimon, CDICH TV nower	Not Present
	- Primary CPICH TX power	TRUE
	- Read SFN indicator	
	- TX Diversity indicator	FALSE
	- Cell Selection and Re-selection info	
	- Qoffset1 _{s,n}	0 dB
	- Qoffset2 _{s,n}	0 dB
	- Maximum allowed UL TX power	33dBm
	- HCS neighbouring cell information	Not Present
	— - HCS_PRIO	Not i losofit
	——————————————————————————————————————	
	- Temporary_offset1	
Ш		
	— - CHOICE mode	
	— - Qqualmin	
	— - Qrxlevmin	
	- Intra-frequency measurement quantity	
	- Filter coefficient	0
	- Measurement quantity	CPICH RSCP
	- Intra-frequency reporting quantity for RACH	
	Reporting	
	-SFN-SFN observed time difference	No report
	- Reporting quantity	No report
	Maximum number of reported cells on RACH	No report
	- Reporting information for state CELL_DCH	140 Topolt
		Acknowledged mode PLC
	- Measurement Report Transfer	Acknowledged mode RLC
	- Periodic Reporting / Event Trigger Reporting	Event trigger
	Mode	
	- Intra-frequency reporting quantity	
	 Reporting quantities for active set cells 	
	 SFN-SFN observed time difference 	No report
	reporting indicator	

 Cell synchronisation information reporting indicator

- Cell identity reporting indicator

CHOICE mode

- CPICH Ec/N0 reporting indicator
- CPICH RSCP reporting indicator
- Pathloss reporting indicator

- CFN-SFN observed time difference

- Reporting quantities for monitored set cells
- SFN-SFN observed time difference reporting indicator
- Cell identity reporting indicator
- CHOICE mode
- CPICH Ec/No reporting indicator
- _- CPICH RSCP_reporting indicator
- Pathloss reporting indicator
- CFN-SFN observed time difference
- Reporting quantities for detected set cells
- SFN-SFN observed time difference
- -- Cell identity
- CPICH Ec/NO
- -- CPICH RSCP
- Pathloss
- CFN-SFN observed time difference
- Intra-frequency measurement reporting criteria
- parameters required for each event
- intra-frequency event identity
- Triggering condition(mandatory in case of 1a,1b,1e,1f)
 - Reporting Range(optional in case of 1a,1b)
 - cells forbidden to affect reporting

range(optional in case of 1a,1b)

- Primary CPICH info
- Primary scrambling code
- W(optional in case of 1a,1b)
- Hysteresis (mandatory in case of

1a,1b,1c,1d,1g,1h,1l,1j)

- Threshold used frequency-(in case of 1e,1f,1h,1i,1j)
- Reporting deactivation threshold(mandatory in case of 1a)
 - Replacement activation threshold(mandatory in case of 1c)
 - Time to trigger
 - Amount of reporting
 - Reporting interval
 - Reporting cell status
 - CHOICE reporting cell
- Maximum number of $\frac{reporting}{reported}$ cells $\frac{reporting}{reported}$
- Inter-frequency measurement system information
- Inter-frequency measurement identity number
- Inter-frequency cell info list
- Removed inter-frequency cells
- Inter-frequency cell id
- -- New inter-frequency cells
- -- Inter-frequency cell id

FALSE

TRUE

FDD FALSE

TRUE

FALSE TRUE

No report

TRUE

FDD FALSE

TRUE

FALSE

FALSE

Not Present

la

monitored set cells

5dB

Not Present

1.0

0.0

T.B.D(-125..165)

1

Not Present(not applicable, 1, 2, 3, 4, 5, 6, 7)

0(0,10,20,40,60,80,100,120,160,200,240,320,640,1280,2560,5000)

Infinity(1,2,4,816,32,64,Infinity)

0-(0,250,500,1000,2000,4000,8000,16000 milliseconds)

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

2

Not Present

Frequency info	
—- UARFCN uplink(Nu)	
—- UARFCN downlink(Nd)	
Cell info	
Cell individual offset	
- Reference time difference to cell	
Primary CPICH info	
- Primary scrambling code	
- Primary CPICH TX power	
Read SFN indicator	
- TX Diversity indicator	
Cell Selection and Re-selection info	
Qoffsets,n	
- Maximum allowed UL TX power	
— - HCS_PŘIO	
——————————————————————————————————————	
- HCS Cell Re-selection information	
- Temporary_offset1	
— - CHOICE mode	
— - Qqualmin	
Qrxlevmin	
Inter-frequency measurement quantity	
- Intra-frequency reporting criteria	
Intra-frequency measurement quantity	
Filter coefficient	
— - Measurement quantity	
—- Inter-frequency reporting criteria	
Inter-frequency measurement quantity	
Filter coefficient	
 - Measurement quantity for frequency quality 	
estimate	
Inter-frequency measurement reporting	
criteria	
 Inter-system-RAT measurement system 	Not Present
information	
- Traffic volume measurement system	Not Present
information	
- UE internal measurement system information	Not Present

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

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

Contents of System Information Block type 16

- Re-establishment timer	[FFS]
- Predefined RB configuration	[FFS]
- Predefined TrCh configuration	[FFS]
- Predefined Phy configuration	[FFS]

Default settings for cell No.1:

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

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:

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

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:

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

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:

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

Cell No.5

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

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

Default settings for cell No.5:

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

Cell No.6

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

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

Default settings for cell No.6:

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

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:

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

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:

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

Default Radio Conditions for Multi-Cell Environment

In the event that a multi-cell environment is applied by the System Simulator, the following transmission parameters shall be used unless otherwise stated in the description of individual test case.

Parameter	Unit	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 7	Cell 8
UTRA RF Channel Number								Switched Off	Switched Off
CPICH_Ec/No	dB	-5	-15	-20	-24	-18	-10	-	-
CPICH RSCP	dBm	-60	-70	-75	-95	-73	-65	-	-
UTRA RSSI	dBm	-55	-55	-55	-55	-55	-55	-	-
Propagation Profile					Sta	atic			
Qrxlevmin Qrxqualmin	dBm dB	-90dBm -20dB	-90dBm -20dB	-90dBm -20dB	-90dBm -20dB	-90dBm -20dB	-70dBm -5dB		
UE_TXPWR_MAX _RACH	DBm	Max. RF Output of UE							
MNC		001D	001D	001D	001D	001D	001D		
MCC		01D	01D	01D	01D	02D	01D		
Cell barred		No	No	No	No	No	No	No	No

9 Default Message Contents

This clause contains the default values of common messages, which unless indicated otherwise in specific clauses of TS34.123-1, shall be transmitted and checked by the system simulator.

Contents of DOWNLINK DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	<u>0</u>
Integrity check info	The presence of this IE is dependent on IXIT statements
	in TS 34.123-2. If integrity protection is indicated to be
	active, this IE is present with the values of the sub IEs as
	stated below. Else, this IE and the sub-IEs are omitted.
- 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
NAS message	See Specific Message Content for each test case

Contents of INITIAL DIRECT TRANSFER message: AM

Information Element	Value/remark
Message Type	
Integrity check info	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.
Service Descriptor	Not checked
Flow Identifier	Not checked
CN domain identity	Not checked
Intra Domain NAS Node Selector	Not checked
NAS message	Not checked
Megasured results on RACH	Not checked

Contents of PAGING TYPE1 message: TM (Speech in CS)

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

Contents of PAGING TYPE1 message: TM (The others of speech in CS)

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

Contents of PAGING TYPE1 message: TM (Packet in PS)

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

Information Element	Value/remark
Message Type	
RRC transaction identifier Integrity check info	Arbitrarily selects an integer between 0 and 3 The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
RRC message sequence number Integrity protection mode info Integrity protection mode command Downlink integrity protection activation info RRC message sequence number RRC message sequence number Integrity protection algorithm Integrity protection initialisation number	SS provides the value of this IE, from its internal counter Not Present
Ciphering mode info	This presence of this IE is dependent on IXIT statement in TS 34.123-2. If ciphering is indicated to be active, this IE present with the values of the sub IEs as stated below Else, this IE is omitted.
 Ciphering mode command Ciphering algorithm Ciphering Aactivation time for DPCH Radio bearer downlink ciphering activation time info 	start Use one of the supported ciphering algorithms. (256+CFN-(CFN MOD 8 + 8))MOD 256 Not Present
- Radio bearer identity - RLC sequence number	
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
DRX indicator RRC State Indicator	Not Present
UTRAN DRX cycle length coefficient CN information info - PLMN identity	Not Present
 CN common GSM-MAP NAS system information CN domain identity CN domain specific GSM-MAP NAS system 	
information	
URA identity	Not Present
Signalling RB information to setup RB identity CHOICE RLC info type RLC info	Not Present
- CHOICE Uplink RLC mode - Transmission RLC discard	
- Timer MRW	
- Timer discard	
- MaxMRW	
- Transmission window size	
- In-sequence delivery	
- RB mapping info	
- Information for each multiplexing option - Number of RLC logical channels	
- Uplink transport channel type - Transport channel identity	
 Logical channel identity MAC logical channel priority 	

Number of RLC logical channels Downlink transport channel type Transport channel identity Logical channel identity RAB information for setup - RAB info - RAB identity 0000 0001B - CN domain identity CS domain - NAS Synchronisation Indicator Not Present - Re-establishment timer - T314 20 seconds - RB information to setup - RB identity 510 - PDCP info Not Present - CHOICE RLC info type **RLC** info - CHOICE Uplink RLC mode TM RLC - Transmission RLC discard Not Present - Segmentation indication **TRUE** TM RLC - CHOICE Downlink RLC mode - Segmentation indication **TRUE** - RB mapping info - Information for each multiplexing option - Number of RLC logical channels DCH - Uplink transport channel type - Transport channel identity - Logical channel identity **1**7 - CHOICE RLC size list - MAC logical channel priority 1 Logical channel max loss 0 - Downlink RLC logical channel info - Number of RLC logical channels - Downlink transport channel type DCH - Transport channel identity 17 _- Logical channel identity - RB information to setup - RB identity 611 - PDCP info Not Present - CHOICE RLC info type **RLC** info - CHOICE Uplink RLC mode TM RLC - Transmission RLC discard Not Present **TRUE** - Segmentation indication - CHOICE Downlink RLC mode TM RLC - Segmentation indication **TRUE** - RB mapping info - Information for each multiplexing option - Number of RLC logical channels - Uplink transport channel type DCH - Transport channel identity - Logical channel identity - CHOICE RLC size list All - MAC logical channel priority 1 Logical channel max loss 0 - Downlink RLC logical channel info - Number of RLC logical channels _- Downlink transport channel type DCH _- Transport channel identity - Logical channel identity - RB information to setup (This IE is needed for 12.2 kbps and 10.2 kbps) - RB identity 712 Not Present - PDCP info - CHOICE RLC info type RLC info

Logical channel max loss

```
- CHOICE Uplink RLC mode
                                                           TM RLC
       - Transmission RLC discard
                                                           Not Present
      - Segmentation indication
                                                           TRUE
      - CHOICE Downlink RLC mode
                                                           TM RLC
       - Segmentation indication
                                                           TRUE
     - RB mapping info
     - Information for each multiplexing option
      - Number of RLC logical channels
       - Uplink transport channel type
                                                           DCH
       - Transport channel identity
      - Logical channel identity
       - CHOICE RLC size list
                                                           All
      - MAC logical channel priority
                                                           Ω
        Logical channel max loss
      - Downlink RLC logical channel info
      - Number of RLC logical channels
                                                           DCH
       - Downlink transport channel type
       - Transport channel identity
       - Logical channel identity
RB information to be affected
                                                           (UM DCCH for RRC)
     - RB identity
     - RB mapping info
     - Information for each multiplexing option
      - Number of RLC logical channels
      - Uplink transport channel type
                                                           DCH
       - Transport channel identity
                                                           <del>1</del>5
       - Logical channel identity
                                                           1
       - CHOICE RLC size list
                                                           <u>All</u>
      - MAC logical channel priority
                                                           1
        Logical channel max loss
                                                           0
      - Downlink RLC logical channel info
      - Number of RLC logical channels
      _- Downlink transport channel type
                                                           DCH
       - Transport channel identity
                                                           10
       - Logical channel identity
RB information to be affected
                                                           (AM DCCH for RRC)
     - RB identity
     - RB mapping info
     - Information for each multiplexing option
      - Number of RLC logical channels
      - Uplink transport channel type
                                                           DCH
       - Transport channel identity
                                                           <u> 15</u>
      - Logical channel identity
                                                           2
       - CHOICE RLC size list
                                                           <u>All</u>
      - MAC logical channel priority
                                                           2
                                                           0
        Logical channel max loss
      - Downlink RLC logical channel info
      - Number of RLC logical channels
       - Downlink transport channel type
                                                           DCH
       - Transport channel identity
                                                           1<u>0</u>
       - Logical channel identity
RB information to be affected
                                                           (AM DCCH for NAS_DT High priority)
     - RB identity
     - RB mapping info
     - Information for each multiplexing option
      - Number of RLC logical channels
      - Uplink transport channel type
                                                           DCH
      - Transport channel identity
                                                           <del>1</del>5
      - Logical channel identity
                                                           3
       - CHOICE RLC size list
                                                           <u>All</u>
       - MAC logical channel priority
                                                           3
        Logical channel max loss
                                                           0
```

- Downlink RLC logical channel info

- Number of RLC logical channels
- _- Downlink transport channel type
- _- Transport channel identity
- _- Logical channel identity

RB information to be affected

- RB identity
- RB mapping info
- Information for each multiplexing option
- Number of RLC logical channels
- Uplink transport channel type
- Transport channel identity
- Logical channel identity
- CHOICE RLC size list
- MAC logical channel priority
- Logical channel max loss

- Downlink RLC logical channel info

- Number of RLC logical channels
- Downlink transport channel type
- Transport channel identity
- Logical channel identity

RB with PDCP information list

UL Transport channel information for all transport channels

- TFC subset
- Allowed Transport Format combination
- PRACH TFCS
- CHOICE Mode
- UL DCH TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS addition information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- CHOICE Gain Factors
- Gain factor ßc
- Gain factor ßd
- Reference TFC ID
- Power offset Pp-m

Added or Reconfigured UL TrCH information

- Transport channel identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of transport blocks
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

Added or Reconfigured UL TrCH information

- Transport channel identity

1 DCH 10

(AM DCCH for NAS_DT Low priority)

2

1 DCH

15

4

ΑII

4

0

1

DCH

1<u>0</u>

4

Not Present

(This IE is repeated for TFC number.)

0 to MaxTFCValue-1 (MaxTFCValue is refer to clause

6.10 Parameter Set.)

Not Present

FDD

(This IE is repeated for TFC number.)

Addition

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

Signalled Gain Factor

0

0

Not Present

0dB

21

Dedicated transport channels

(This IE is repeated for TFI number)

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Not Present

Reference to clause 6.10 Parameter Set All

Reference to clause 6.10 Parameter Set



- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of transport blocks
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

Added or Reconfigured UL TrCH information

- Transport channel identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of transport blocks
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

Added or Reconfigured UL TrCH information

- Transport channel identity
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC size
- Number of TBs and TTI List
- Transmission Time Interval
- Number of transport blocks
- CHOICE Logical Channel List
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

DRAC static information

- Transmission Time Validity
 - Time duration before retry
 - DRAC Class identity

DL Transport channel information common for all transport channel

- SCCPCH TFCS
- CHOICE DL parameters
- DL DCH TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation

Dedicated transport channels

(This IE is repeated for TFI number)

Reference to clause 6.10 Parameter Set

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

Not Present

Reference to clause 6.10 Parameter Set

(This IE is needed for 12.2 kbps and 10.2 kbps)

(This IE is repeated for TFI number)

Dedicated transport channels

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set Not Present

Reference to clause 6.10 Parameter Set ΑII

Reference to clause 6.10 Parameter Set

If TrCH reconfiguration is executed then this is needed (e.g The rate of SRB for DCCH is changed.).

Dedicated transport channels

(This IE is repeated for TFI number)

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Not Present

Reference to clause 6.10 Parameter Set

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

Not Present

Not Present Independent

(This IE is repeated for TFC number.)

Addition

- TFCS addition information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- CHOICE Gain Factors
- Gain factor ßc
- Gain factor ßd
- Reference TFC ID
- Power offset Pp-m

Added or Reconfigured DL TrCH information

- Transport channel identity
- CHOICE DL parameters
- UL TrCH Identity
- DCH quality target
- BLER Quality value
- Transparent mode signalling info

Added or Reconfigured DL TrCH information

- Transport channel identity
- CHOICE DL parameters
- UL TrCH informationidentity

Added or Reconfigured DL TrCH information

- Transport channel identity
- CHOICE DL parameters
- UL TrCH informationidentity
- DCH quality target
- BLER Quality value
- Transparent mode signalling info

Added or Reconfigured DL TrCH information

- Transport channel identity
- CHOICE DL parameters
- UL TrCH Identity
- · TFS
- Dynamic Transport format information
- Number of Transport blocks
- RLC size
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- DCH quality target
- BLER Quality value
- Transparent mode signalling info

Frequency info

- UARFCN uplink(Nu)
- UARFCN downlink(Nd)

Maximum allowed UL TX power

Uplink DPCH infoCHOICE channel requirement

- Uplink DPCH power control info
- DPCCH power offset
- PC Preamble
- Power Control Algorithm
- TPC step size
- Scrambling code type
- Scrambling code number
- Number of DPDCH
- spreading factor
- TFCI existence
- Number of FBI bit

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

Refer to clause 6.10 Parameter Set

Signalled Gain Factor

U

Not Present

0dB

26

SameAsUL

21

-6.30.00

Not Present

37

SameAsUL

32

(This IE is needed for 12.2 kbps and 10.2 kbps)

48

SameAsUL

43

-6.30.00

Not Present

If TrCH reconfiguration is executed then this is needed(e.g The rate of SRB for DCCH is changed.).

15

Independent

1<u>0</u>

(This IE is repeated for TFI number)

Reference to clause 6.10 Parameter Set

-6.30.00

Not Present

Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set 33dBm

Uplink DPCH info

•

-6dB

15 slots

Algorithm1

1dB

Long

0 (0 to 16777215)

Not Present(1)

SF is reference to clause 6.10 Parameter Set

TRUE

Not Present(0)

- Puncturing Limit Reference to clause 6.10 Parameter Set **CHOICE Mode** - Downlink PDSCH information Not Present Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication **Maintain** - CFN-targetCFN frame offset Not Present - CHOICE mode FDD - Downlink DPCH power control information - DPC mode 0 (single) - DL rate matching restriction information Not Present - Spreading factor Reference to clause 6.10 Parameter Set - Fixed or Flexible Position Fixed - TFCI existence **FALSE** - Number of bits for Pilot bits(SF=128,256) 4 bits - DPCH compressed mode info -TGPSI -TGPS Status Flag Inactive - Transmission gap pattern sequence configuration parameters - TGMP **FDD Measurement** - TGPRC - TGCFN (Current CFN + (256 - TTI/10msec)) mod 256 - TGSN - TGL1 10 - TGL2 5 - TGD 15 - TGPL1 35 - TGPL2 35 - RPP Mode 1 - ITP Mode 1 - UL/DL Mode DL - Downlink compressed mode method SF/2 - Uplink compressed mode method Not Present - Downlink frame type 2.0 - DeltaSIR1 - DeltaSIRafter1 1.0 - DeltaSIR2 Not Present Not Present - DeltaSIRafter2 - TX Diversity mode None - SSDT information Not Present - S field - Code Word Set - Default DPCH Offset Value 0 Downlink information for each radio links - Primary CPICH info - Primary scrambling code 100 - PDSCH with SHO DCH info Not Present - DSCH radio link identifier - TFCI Combining set - Radio link identifier - Primary CPICH info - Primary scrambling code - PDSCH code mapping Not Present - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation Primary CPICH may be used - DPCH frame offset 0 chips - Secondary CPICH info Not Present - Secondary scrambling code - channelisation code

1

DL channelisation codeSecondary scrambling code

- Spreading factor

- Code number

- Scrambling code change

- TPC combination index

- SSDT Cell Identity

- Closed loop timing adjustment mode

- Secondary CCPCH info

- Selection Indicator

- Primary CPICH usage for channel estimation

- Secondary CPICH info

- Secondary scrambling code

- channelisation code

- Secondary scrambling code

- SSDT Indicator

- Spreading factor

- Code number

- Pilot symbol existence

- TFCI existence

- Fixed or Flexible Position

- Timing offset

- TFCS

- FACH/PCH information

- TFS

- Dynamic Transport format information

- Number of Transport blocks

- RLC Size

- Semi-static Transport Format information

- Transmission time interval

- Type of channel coding

- Coding Rate

- Rate matching attribute

- CRC size

- TFS

- Dynamic Transport format information

- Number of Transport blocks

- RLC Size

- Semi-static Transport Format information

- Transmission time interval

- Type of channel coding

- Coding Rate

- Rate matching attribute

- CRC size

- References to system information blocks

- Scheduling information

Reference to clause 6.10 Parameter Set

SF-1(SF is reference to clause 6.10 Parameter Set)

No change

0

-a

Not Present

Not Present

Not Present Not Present

Not Present

Contents of RADIO BEARER SETUP COMPLETE message: AM

Message Type	
RRC transaction identifier	Checked to see if the value is identical to the same IE in
	the downlink RADIO BEARER SETUP message.
Integrity check info	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
- Wessage 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
- NNO Message sequence number	used by SS to compute the XMAC-I value.
Uplink integrity protection activation info	Not checked.
CHOICE mode	FDD Not checked
START	1101 011001100
COUNT-C activation time	The presence of this IE depends on the following 2
	factors: (a) There exists RB(s) mapped to RLC-TM and
	(b) UE is transiting to CELL_DCH state after the RB
	establishment procedure. Else, this IE is absent.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER SETUP
	message, this IE must be absent. Else, SS checks this IE
	for the presence of activation times of all ciphered uplink
	RLC-UM and RLC-AM RBs.
RB with PDCP information list	Not checked
Other information element	Not checked

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
mognly chook into	in TS 34.123-32. If integrity protection is indicated to be
	active, this IE is present with the values of the sub IEs as
	stated below. Else, this IE and the sub-IEs are omitted.
- message authentication code	SS calculates the value of MAC-I for this message and
moodgo danomodion codo	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
- Integrity protection mode command	Not i resent
- Downlink integrity protection activation info	
- RRC message sequence number	
- RRC message sequence number	
- Integrity protection algorithm	
- Integrity protection initialisation number	
Ciphering mode info	Not Present
- Ciphering mode command	
- Ciphering algorithm	
- Activation time for DPCH	
- Radio bearer downlink ciphering activation time	
info	
- Radio bearer identity	
- RLC sequence number	
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	Not Present
New C-RNTI	Not Present
DRX indicator RRC State Indicator	NoDRXCELL_DCH
UTRAN DRX cycle length coefficient	Not Present
CN information info	Not Present
- PLMN identity	
- CN common GSM-MAP NAS system information	
- CN domain identity	
- CN domain specific GSM-MAP NAS system information	
Signalling Connection release indicator	Not present
URA identity	Not present
RAB information to reconfigure list	Not Present
RB information to release	11311133011
- RB identity	5 10
RB information to release	
- RB identity	6 11
RB information to release	
- RB identity	7 12
RB information to be affected	(UM DCCH for RRC)
- RB identity	1
- RB mapping info	
 Information for each multiplexing option 	
 Number of RLC logical channels 	1
- Uplink transport channel type	DCH
- Transport channel identity	4 <u>5</u>
- Logical channel identity	1
- CHOICE RLC size list	All
- MAC logical channel priority	1
- Logical channel max loss	0
- Downlink RLC logical channel info	1
 Number of RLC logical channels Downlink transport channel type 	1 DCH
Downlink transport channel type Transport channel identity	
I ransport channel identity	<mark>10</mark>

_- Logical channel identity (AM DCCH for RRC) RB information to be affected - RB identity - RB mapping info - Information for each multiplexing option - Number of RLC logical channels - Uplink transport channel type DCH - Transport channel identity - Logical channel identity - CHOICE RLC size list <u>All</u> 2 - MAC logical channel priority Logical channel max loss 0 - Downlink RLC logical channel info - Number of RLC logical channels 1 - Downlink transport channel type DCH _- Transport channel identity 1<u>0</u> _- Logical channel identity RB information to be affected (AM DCCH for NAS_DT High priority) - RB identity - RB mapping info - Information for each multiplexing option - Number of RLC logical channels - Uplink transport channel type DCH - Transport channel identity 3 - Logical channel identity - CHOICE RLC size list <u>All</u> - MAC logical channel priority 3 Logical channel max loss 0 - Downlink RLC logical channel info - Number of RLC logical channels _- Downlink transport channel type DCH Transport channel identity - Logical channel identity RB information to be affected (AM DCCH for NAS_DT Low priority) - RB identity - RB mapping info - Information for each multiplexing option - Number of RLC logical channels - Uplink transport channel type DCH - Transport channel identity - Logical channel identity 4 - CHOICE RLC size list <u>All</u> - MAC logical channel priority 4 Logical channel max loss 0 - Downlink RLC logical channel info - Number of RLC logical channels _- Downlink transport channel type DCH Transport channel identity 10 - Logical channel identity RB with PDCP information list Not Present UL Transport channel information for all transport channels - TFC subset (This IE is repeated for TFC number.) - Allowed Transport Format combination 0 to MaxTFCValue-1 (MaxTFCValue is refer to clause 6.10 Parameter Set.) - PRACH TFCS Not Present - CHOICE Mode **FDD** - UL DCH TFCS (This IE is repeated for TFC number.) - Normal - TFCI Field 1 information - CHOICE TFCS representation Addition - TFCS addition information

- CHOICE CTFC Size
- CTFC information
- Power offset information
- CHOICE Gain Factors
- Gain factor ßc
- Gain factor ßd
- Reference TFC ID
- Power offset Pp-m

Deleted UL TrCH Information

- Transport channel identity

Deleted UL TrCH Information

- Transport channel identity

Deleted UL TrCH Information

- Transport channel identity

Added or Reconfigured UL TrCH information

- Transport channel identity
- TES
- CHOICE Transport channel type
 - Dynamic Transport format information
 - Number of Transport blocks
 - RLC size
 - Number of TBs and TTI List
 - Transmission Time Interval
 - Number of transport blocks
 - CHOICE Logical Channel List
 - Semi-static Transport Format information
 - Transmission time interval
 - Type of channel coding
 - Coding Rate
 - Rate matching attribute
 - CRC size

CPCH set ID

DRAC static information

- Transmission Time Validity
- Time duration before retry
- DRAC Class Identity

DL Transport channel information common for all transport channel

- SCCPCH TFCS
- CHOICE DL parameters
- DL DCH TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS addition information
- CHOICE CTFC Size
- CTFC information
- Power offset information
- CHOICE Gain Factors
- Gain factor ßc
- Gain factor ßd
- Reference TFC ID
- Power offset Pp-m

Deleted DL TrCH Information

- Transport channel identity

Deleted DL TrCH Information

- Transport channel identity

Deleted DL TrCH Information

- Transport channel identity

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

Refer to clause 6.10 Parameter Set

Signalled Gain Factors

U

0

Not Present

0dB

21

32

43

If TrCH reconfiguration is executed then this is needed (e.g The rate of SRB for DCCH is changed.).

14

Dedicated transport channel

(This IE is repeated for TFI number)

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Not Present

Reference to clause 6.10 Parameter Set

Αll

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

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

Not Present

Not Preaent

Not Present

Independent

(This IE is repeated for TFC number.)

Addition

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

Refer to clause 6.10 Parameter Set

Signalled Gain Factor

0

0

Not Present

0dB

26

<u> 37</u>

48

Added or Reconfigured DL TrCH information

- Transport channel identity
- CHOICE DL parameters
- UL TrCH Identity
- DCH quality target
- BLER Quality value
- Transparent mode signalling info

Frequency info

- UARFCN uplink(Nu)
- UARFCN downlink(Nd)

Maximum allowed UL TX power

Uplink DPCH info

- Uplink DPCH power control info
- DPCCH power offset
- PC Preamble
- Power Control Algorithm
- TPC step size
- Scrambling code type
- Scrambling code number
- Number of DPDCH
- spreading factor
- TFCI existence
- Number of FBI bit
- Puncturing Limit

CHOICE Mode

- Downlink PDSCH information

Downlink information common for all radio links

- Downlink DPCH info common for all RL
- Timing Indication
 - CFN-targetCFN frame offset
 - CHOICE mode
 - Downlink DPCH power control information
 - DPC mode
 - DL rate matching restriction information
 - Spreading factor
 - Fixed or Flexible Position
 - TFCI existence
 - Number of bits for Pilot bits(SF=128,256)
 - DPCH compressed mode info
 - -TGPSI
 - -TGPS Status Flag
 - Transmission gap pattern sequence configuration parameters
 - TGMP
 - TGPRC
 - TGCFN
 - TGSN
 - TGL1
 - TGL2
 - TGD
 - TGPL1
 - TGPL2
 - RPP
 - ITP
 - UL/DL Mode
 - Downlink compressed mode method
 - Uplink compressed mode method
 - Downlink frame type
 - DeltaSIR1
 - DeltaSIRafter1
 - DeltaSIR2

If TrCH reconfiguration is executed then this is needed(e.g The rate of SRB for DCCH is changed.).

1<u>0</u>

SameAsUL

15

-6.30.00

Not Present

Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set 33dBm

-6dB

15 slots

Algorithm1

1ďB

Long

0 (0 to 16777215)

Not Present(1)

SF is reference to clause 6.10 Parameter Set

TRUE

Not Present(0)

Reference to clause 6.10 Parameter Set

FDD

Not Present

Maintain

Not Present

FDD

0 (single)

Not Present

Reference to clause 6.10 Parameter Set

N/A

FALSE

Reference to clause 6.10 Parameter Set

1

Inactive

FDD Measurement

62

(Current CFN + (256 - TTI/10msec)) mod 256

8 10

5

15

35

35

Mode 1

Mode 1

DL

SF/2

Not Present

A 2.0

1.0

Not Present

- DeltaSIRafter2
- TX Diversity mode
- SSDT information
- S field
- Code Word Set
- Default DPCH Offset Value

Downlink information for each radio links

- Primary CPICH info
- Primary scrambling code
- PDSCH with SHO DCH info
- DSCH radio link identifier
- TFCI Combining set
- Radio link identifier
- Primary CPICH info
- Primary scrambling code
- PDSCH code mapping
- Downlink DPCH info for each RL
- Primary CPICH usage for channel estimation
- DPCH frame offset
- Secondary CPICH info
- Secondary scrambling code
- channelisation code
- DL channelisation code
- Secondary scrambling code
- Spreading factor
- Code number
- Scrambling code change
- TPC combination index
- SSDT Cell Identity
- Closed loop timing adjustment mode
- Secondary CCPCH info
- Selection Indicator
- Primary CPICH usage for channel estimation
- Secondary CPICH info
- Secondary scrambling code
- channelisation code
- Secondary scrambling code
- SSDT Indicator
- Spreading factor
- Code number
- Pilot symbol existence
- TFCI existence
- Fixed or Flexible Position
- Timing offset
- TFCS
- FACH/PCH information
- TES
- Dynamic Transport format information
- Number of Transport blocks
- RLC Size
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- TFS
- Dynamic Transport format information
- Number of Transport blocks
- RLC Size
- Semi-static Transport Format information
- Transmission time interval

Not Present

None

Not Present

0

100

Not Present

Not Present

Primary CPICH may be used

0 chips

Not Present

1

Reference to clause 6.10 Parameter Set

SF-1(SF is reference to clause 6.10 Parameter Set)

No change

0

-a

Not Present

Not Present

Not Present Not Present

- Type of channel codingCoding RateRate matching attribute

- CRC size
- References to system information blocksScheduling information

Not Present

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 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	<u>FDD</u>
COUNT-C activation time	The presence of this IE depends on the following 2
	factors: (a) There exists RB(s) mapped to RLC-TM and
	(b) UE is transiting to CELL_DCH state after the RB
	release procedure. Else, this IE is absent.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in RADIO BEARER RELEASE
	message, this IE must be absent. Else, SS checks this IE
	for the presence of activation times of all ciphered uplink
	RLC-UM and RLC-AM RBs.
RB with PDCP information list	Not checked
Other information element	Not checked

Contents of RRC CONNECTION REQUEST message: TM

Information Element	Value/remark
Message Type	
Initial UE identity	To be checked against requirement if specified
Establishment cause	To be checked against requirement if specified
Protocol error indicator	FALSE
Measured results on RACH	Not checked

Contents of RRC CONNECTION RELEASE message: UM

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

Contents of RRC CONNECTION RELEASE COMPLETE message: AM or UM

Information Element	Semantics description
Message Type	
U-RNTI	If this message is sent on DCCH, this IE should be
	absent. If this message is sent on DCCH, this IE shall
	contain the U-RNTI value assigned.
RRC transaction identifier	The value of this IE is checked to see that it matches the
	value of the same IE transmitted in the downlink RRC
	CONNECTION RELEASE message.
Integrity check info	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	Checked to see if it's identical to the value of XMAC-I
	calculated by the SS
- RRC Message sequence number	Checked to see if it is present. This number is used by
	the SS to compute the XMAC-I
Error indication	Not checked

Information Element	Value/remark
Message Type	Talwoll official C
Initial UE identity	Reference to clause 6.10 Parameter Set
RRC transaction identifier	0
Activation time	(256+CFN-(CFN MOD 8 + 8))MOD 256
New U-RNTI	7
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
New C-RNTI	0000 0000 0000 0001B
RRC State Indicator	CELL_DCH
UTRAN DRX cycle length coefficient	5 (2 to 12)
Capability update requirement	
- UE radio access capability update requirement	FALSE
 System specific capability update requirement 	Not Present
Signalling RB information to setup	(UM DCCH for RRC)
- RB identity	ì
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	Mary DATE of the State of the S
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4 LIM PLC
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
 Information for each multiplexing option Number of RLC logical channels 	1
- Number of RLC logical channels - Uplink transport channel type	DCH
- Oplink transport channel type - Transport channel identity	4 <u>5</u>
- Logical channel identity	1
- CHOICE RLC size list	All
- MAC logical channel priority	1
- Logical channel max loss	0
- Downlink RLC logical channel info	
Number of RLC logical channels	1
Downlink transport channel type	DCH
Transport channel identity	<u>10</u>
Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	2
- CHOICE RLC info type	
- RLC info	AM PLC
- CHOICE Uplink RLC mode - Transmission RLC discard	AM RLC
- Iransmission RLC discard - SDU discard mode	Max DAT retransmissions
- SDU discard mode - MAX_DAT	Max DAT retransmissions 4
- MAX_DAT - Timer_MRW	100
- MaxMRW	4
- Transmission window size	8
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_SDU	1
- Last transmission PU poll	TRUE
- Last retransmission PU poll	TRUE
- Poll_Windows	99 AM DI C
- CHOICE Downlink RLC mode	AM RLC

1	I
- In-sequence delivery	TRUE
- Receiving window size	8
- Downlink RLC status info	
- Timer_status_prohibit	200
- Timer_EPC	200
- Missing PU indicator	TRUE
- RB mapping info	
 Information for each multiplexing option 	
 Number of RLC logical channels 	1
- Uplink transport channel type	DCH
- Transport channel identity	<u>45</u>
- Logical channel identity	2
- CHOICE RLC size list	
	All 2
- MAC logical channel priority	
- Logical channel max loss	0
 Downlink RLC logical channel info 	
Number of RLC logical channels	1
 Downlink transport channel type 	DCH
Transport channel identity	1 <u>0</u>
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	3
	3
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	8
	500
- Timer_RST	
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_SDU	1
- Last transmission PU poll	TRUE
- Last retransmission PU poll	TRUE
- Poll_Windows	99
- CHOICE Downlink RLC mode	AM RLC
- In-sequence delivery	TRUE
· · · · · · · · · · · · · · · · · · ·	
- Receiving window size	8
- Downlink RLC status info	200
- Timer_status_prohibit	200
- Timer_EPC	200
- Missing PU indicator	TRUE
- RB mapping info	
 Information for each multiplexing option 	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	4 <u>5</u>
- Logical channel identity	3
- CHOICE RLC size list	All
- MAC logical channel priority	3
- Logical channel max loss	0
 Downlink RLC logical channel info 	
Number of RLC logical channels	1
Downlink transport channel type	DCH
- Transport channel identity	1 <u>0</u>
Logical channel identity	3
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)
1 Signaling ND information to setup	(" DOOL TO TA TO DI LOW PHOLICY)

- RLC info - CHOICE Uplink RLC mode AM RLC - Transmission RLC discard - SDU discard mode Max DAT retransmissions - MAX_DAT - Timer_MRW 100 - MaxMRW 4 - Transmission window size R - Timer RST 500 - Max RST - Polling info - Timer_poll_prohibit 200 - Timer_poll 200 - Poll_SDU - Last transmission PU poll **TRUE** - Last retransmission PU poll **TRUE** - Poll_Windows 99 - CHOICE Downlink RLC mode AM RLC - In-sequence delivery **TRUE** - Receiving window size 8 - Downlink RLC status info - Timer_status_prohibit 200 - Timer_EPC 200 - Missing PU indicator **TRUE** - RB mapping info - Information for each multiplexing option - Number of RLC logical channels - Uplink transport channel type DCH - Transport channel identity <u> 15</u> - Logical channel identity - CHOICE RLC size list All - MAC logical channel priority Logical channel max loss 0 - Downlink RLC logical channel info - Number of RLC logical channels _- Downlink transport channel type DCH - Transport channel identity 1<u>0</u> - Logical channel identity UL Transport channel information for all transport channels - TFC subset (This IE is repeated for TFC number.) - Allowed Transport Format combination 0 to MaxTFCValue-1 (MaxTFCValue is refer to clause 6.10 Parameter Set.) Not Present - PRACH TFCS - CHOICE Mode - UL DCH TFCS (This IE is repeated for TFC number.) - Normal - TFCI Field 1 information - CHOICE TFCS representation Addition - TFCS addition information - CHOICE CTFC Size Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. - CTFC information Refer to clause 6.10 Parameter Set - Power offset information - CHOICE Gain Factors Signalled Gain Factor - Gain factor ßc - Gain factor ßd 0 - Reference TFC ID Not Present - Power offset Pp-m 0dB

4

- RB identity

- CHOICE RLC info type

Added or Reconfigured UL TrCH information

- Transport channel identity
- TFS
- CHOICE Transport channel type
- Dynamic Transport format information
- Number of Transport blocks
- RLC size
- Number of TBs and TTI lists
- Transmission Time Interval
- Number of Transport blocks
- CHOICE Logical channel list
- Explicit List
 - RB identity
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size

DL Transport channel information common for all transport channel

- SCCPCH TFCS
- CHOICE DL parameters
- DL DCH TFCS
- Normal
- TFCI Field 1 information
- CHOICE TFCS representation
- TFCS addition information
- CHOICE CTFC Size
- CTFC
- Power offset information
- CHOICE Gain Factor
- Gain factor ßc
- Gain factor ßd
- Reference TFC ID
- Power offset Pp-m

Added or Reconfigured DL TrCH information

- Transport channel identity
- CHOICE DL parameters
- UL TrCH Identity
- DCH quality target
- BLER Quality value
- Transparent mode signalling info

Frequency info

- UARFCN uplink(Nu)
- UARFCN downlink(Nd)

Maximum allowed UL TX power Uplink DPCH info

- Uplink DPCH power control info
- DPCCH power offset
- PC Preamble
- Power Control Algorithm
- TPC step size
- Scrambling code type
- Scrambling code number
- Number of DPDCH spreading factor
- TFCI existence



Dedicated transport channels

(This IE is repeated for TFI number)

Reference to clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

(This IE is repeated for TFI number)

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Reference to clause 6.10 Parameter Set

Not Present

Independent

(This IE is repeated for TFC number.)

Addition

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

Refer to clause 6.10 Parameter Set

Signalled Gain Factor

0

0

Not Present

0dB

10

SameAsDUL

<u> 15</u>

-6.30.00

Not Present

Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set 33dBm

-6dB

15 slots

Algorithm1

1ďB

Long

0 (0 to 16777215)

Not Present(1)

SF is reference to clause 6.10 Parameter Set

TRUE

- Number of FBI bit - Puncturing Limit Downlink information common for all radio links - Downlink DPCH info common for all RL - Timing Indication - CPN-targetCPn' frame offset - CHOICE mode - Downlink DPCH power control information - DPC mode - Downlink DPCH power control information - DPC mode - Downlink DPCH power control information - Spreading factor - TTG of sistema - TTG			
Downlink information common for all radio links - Downlink DPCH into common for all RL - Timing Indication - CFN-tareac(ETN trame offset - CHOICE mode - Downlink DPCH power control information - DPC mode - Downlink DPCH power control information - Spreading factor - Fixed or Flexible Position - TFCI existence - Number of bits for Pilot bits(SF=128,256) - DPCH compressed mode info - TGPSI - TGPSI - TGPSI - TGPSI - TGPSI - TGPSI - TGPRC - TGPRC - TGCFN - TGSN - TGL1 - TGL1 - TGL2 - TGD - TGPL2 - TGPP - UIDL Mode - Downlink compressed mode method - Dumlink information or each radio links - Pilot DetailsRafer1 - DetailsRafer2 - DetailsRafer2 - DetailsRafer2 - DetailsRafer2 - DetailsRafer2 - DetailsRafer1 - DetailsRafer2 - Detail information - SSCOT information - SSCOT information - DFCH info - Primary CPICH info - Primary scrambling code - PDSCH cade mapping - Downlink DPCH info for each RL - Primary scrambling code - PDSCH cade mapping - Downlink DPCH info for each RL - Primary scrambling code - PDSCH cade mapping - Downlink DPCH info for each RL - Primary scrambling code - PDSCH cade mapping - Downlink DPCH info for each RL - Primary scrambling code - PDSCH cade mapping - Downlink DPCH info for each RL - Primary scrambling code - PDSCH cade mapping - Downlink DPCH info for each RL - Primary scrambling code - PDSCH cade mapping - Downlink DPCH info for each RL - Primary Scrambling code - PDSCH trame offset - Secondary Scrambling code - Channelisation code			Not Present(0)
- Downlink DPCH info common for all RL - Timing Indication - CFN-targetCFN frame offset - CHOICE mode - Downlink DPCH power control information - DPC mode - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - Number of bits for Pilot bits(SF=128,256) - DPCH compressed mode info - TGPSI - TGPSI - TGPS Status Flag - Transmission gap pattern sequence configuration parameters - TGCFN - TGMP - TGPRC - TGCFN - TGBN - TGIL - TGL2 - TGCP - TGCFN - TGPL1 - TGPL1 - TGPL2 - TGPL1 - TGPL2 - RPP - ITP - IL/DL Mode - Downlink compressed mode method - Dumlink compressed mode method - Dumlink frame type - DeltaSiRat - DeltaSiRater1 - DeltaSiRater2 - TX Diversity mode - SSDT information - S field - Code Word Set - Default DPCH Offset Value - Downlink information for each radio links - Primary CPICH info - DSCH vidth SHO DCH info - DSCH radio link identifier - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary Scrambling code - channelisation code - DL channelisation code		- Puncturing Limit	Reference to clause 6.10 Parameter Set
- Timing Indication - CFN4argetCFN frame offset - CHOICE mode - Downlink DPCH power control information - DPC mode - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - FFCI existence - Number of bits for Pilot bits(SF=128,256) - DPCH compressed mode info - TGPSI - TGPSI - TGPSI - TGPSI - TGPSI - TGRN - TGPL2 - TOP - TGPL3 - TGPL3 - TGPL4 - TGPL4 - TGPL2 - TOP - TGPL4 - TGPL5 - TGPL5 - TGPL5 - TGPL5 - TGPL6 - TGPL6 - TGPL7 - TGPL8 - TGPL8 - TGPL9 - TGPL1 - TGPL2 - TGPL1 - TGPL2 - TGPL1 - TGPL2 - TGPL1 - TGPL2 - TGPL3 - TGPL3 - TGPL4 - TGPL4 - TGPL5 - TGPL5 - TGPL5 - TGPL6 - TGPC		Downlink information common for all radio links	
- CFN-targetCFN frame offset - CHOICE mode - Downlink DPCH power control information - DPC mode - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - Number of bits for Pilot bits(SF=128,256) - DPCH compressed mode info - TGPSI - TGPS (CEFN) - TGPSI - TGPS Status Flag - Transmission gap pattern sequence configuration parameters - TGCFN - TGMP - TGRM - TGSN - TGL1 - TGCF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF1 - TGGF1 - TGGF1 - TGGF1 - TGGF2 - TGG - TTGF1 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF2 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF1 - TGGF2 - TGGF1 - TGGF2 - TGGF1 -		 Downlink DPCH info common for all RL 	
- CHOICE mode - Downlink DPCH power control information - DPC mode - DL rate matching restriction information - Spreading factor - Fixed or Flexible Position - TFCI existence - Number of bits for Pilot bits(SF=128,256) - DPCH compressed mode info - TGPS - TGPS Status Flag - Transmission gap pattern sequence configuration parameters - TGCFN - TGRPC - TGCFN - TGRPC - TGCFN - TGRPC - TGCFN - TGBU - TGPL1 - TGIL - TGPL - T		- Timing Indication	<u>Maintain</u>
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- Primary CPICH info - Primary scrambling code - PDSCH with SHO DCH info - DSCH radio link identifier - TFCI Combining set - Radio link identifier - Primary CPICH info - Primary scrambling code - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code			
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- Radio link identifier - Primary CPICH info - Primary scrambling code - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code			
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- Primary scrambling code - PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code			
- PDSCH code mapping - Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code			
- Downlink DPCH info for each RL - Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code		- PDSCH code manning	Not Present
- Primary CPICH usage for channel estimation - DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code			THOUT TOGETH
- DPCH frame offset - Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code			Primary CDICH may be used
- Secondary CPICH info - Secondary scrambling code - channelisation code - DL channelisation code			
- Secondary scrambling code - channelisation code - DL channelisation code			
- channelisation code - DL channelisation code			INOLFIESEIL
- DL channelisation code			
- Secondary Scrambling code			1
	ı	- Secondary scrambling code	

- Spreading factor
- Code number
- Scrambling code change
- TPC combination index
- SSDT Cell Identity
- Closed loop timing adjustment mode
- Secondary CCPCH info
- Selection Indicator
- Primary CPICH usage for channel estimation
- Secondary CPICH info
- Secondary scrambling code
- channelisation code
- Secondary scrambling code
- SSDT Indicator
- Spreading factor
- Code number
- Pilot symbol existence
- TFCI existence
- Fixed or Flexible Position
- Timing offset
- TFCS
- FACH/PCH information
- TFS
- Dynamic Transport format information
 - Number of Transport blocks
- RLC Size
- Number of TBs and TTI lists
- Transmission Time Interval
- Number of Transport blocks
- CHOICE Logical channel list
- Explicit List
 - RB identity
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- TFS
- Dynamic Transport format information
- Number of Transport blocks
- RLC Size
- Semi-static Transport Format information
- Transmission time interval
- Type of channel coding
- Coding Rate
- Rate matching attribute
- CRC size
- References to system information blocks
- Scheduling information

Reference to clause 6.10 Parameter Set

SF-1(SF is reference to clause 6.10 Parameter Set)

No change

0 -a

Not Present

Not Present

Not Present Not Present

(This IE is repeated for TFI number)

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Reference to TS34.108 clause 6.10 Parameter Set Reference to TS34.108 clause 6.10 Parameter Set

Not Present

Contents of RRC CONNECTION SETUP COMPLETE message: AM

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

Contents of SECURITY MODE COMMAND message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	- I all all y colocie all integer settled a care
- Message authentication code	Set to an arbitrarily selected 32-bits integer
- RRC Message Sequence Number	Set to an arbitrarily selected integer between 0 and 15
Security capability	
- Ciphering algorithm capability	If ciphering is indicated to be active on IXIT statements in TS 34.123-2, use one of the supported ciphering algorithms. Else, set this IE to 0000000000000000B (UEA0)
 Integrity protection algorithm capability 	000000000000010B (UIA1)
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
- Ciphering algorithm	Use the same ciphering algorithm specified in "ciphering algorithm capability" IE in this message.
 <u>Ciphering Aactivation time for DPCH</u> Radio bearer downlink ciphering activation time info 	Not Present
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be
	active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	Supported domain

Contents of SECURITY MODE COMPLETE message: AM

Information Element	Value/remark
Message Type	
RRC transaction identifier	The value of this IE is checked to see that it matches the
	value of the same IE transmitted in the downlink
	SECURITY MODE COMMAND message.
Integrity check info	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.
Radio bearer uplink ciphering activation time info	If ciphering is not activated in SECURITY MODE
	COMMAND message, this IE must be absent. Else, SS
	checks this IE for the presence of activation times for all
	ciphered uplink RLC-UM and RLC-AM RBs.

Contents of SIGNALLING CONNECTION RELEASE 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 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.
	SS provides the value of this IE, from its internal counter.
Signalling Flow related information list	
- Flow Identifier requirement	Set to "Flow Identifier" field in the INITIAL DIRECT
·	TRANSFER message

Contents of UPLINK 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.
Flow Identifier	To be checked against requirement if specified
CN domain identity	Checked to see if set to supported CN domain as specified in the IXIT statements
NAS message	Set according to that indicated in specific message content clause
Measured results on RACH	Not checked

Tdoc T1-010088

3GPP TSG-T1 SWG SIG Meeting #15 Copenhagen, Denmark, 5th-7th February 2001

T1S-010027

CHANGE REQUEST								CR-Form-v3								
*	TS :	34.10	8	CR	038		æ	rev	-	æ	Curren	t vers	sion:	3.	2.0	æ
For <u></u>	IELP on	using t	his for	m, see	bottom	of this	s pag	ge or	look	at the	е рор-и	o text	t over	the	₩ syr	nbols.
Propose	ed change	affect	ts: ¥	(U)	SIM	ME	/UE	X	Rad	lio Ac	ccess Ne	etwor	k	Co	ore Ne	etwork
Title:	8	€ Upo	dating 1	to TDE	single I	mode										
Source:	9	€ Sie	mens /	AG												
Work ite	m code:8	€ Cor	nforma	nce te	sting for	UE (1	rdd))			Da	te:	5.F	eb.2	2001	
Category	y: 8	€ F									Releas	se: #	R9	9		
	Use one of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) Detailed explanations of the above categories can be found in 3GPP TR 21.900. Use one of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1999) R99 (Release 4) REL-4 (Release 4) REL-5 (Release 5)															
Reason	for chang	је: Ж	Some	e chan	ges to ir	nclude	: TDI	D sin	gle m	node.						
Summar	Summary of change: References TDD technical specifications. TDD is in Release 99. Inner Loop Power Control in UL only FDD.															
Consequence not appr	uences if oved:	ж														
Clauses	affected:	ж	Refe	rences	, Introdu	uction,	6.6.	.2.2								
Other sp			Te	st spe	re speci cification ecification	ns	ns	я	B							
Other co	omments:	ж														

References

[19]

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: "Mobile Station (MS) conformance specification; Part 1: Protocol conformance specification".
[2]	3GPP TS 34.121: " <u>Terminal Conformance Specification</u> ; 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: "Logical Test Interface (FDD) Special conformance testing functions": "Terminal Logical Test Interface; Special conformance testing functions"
[8]	3GPP TS 25.214: "Physical layer procedures (FDD)".
[7]	3GPP TS 25.301 Services Provided by the physical layer
[9]	3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
[10]	3GPP TR 25.990: "Vocabulary".
[11]	3GPP TS 25.101: "UE Transmission and Reception (FDD)".
[12]	3GPP TS 25.102: "UE Transmission and Reception (TDD)".
[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 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

GSMA-ISG: Typical Radio Parameter Sets, version 1.1, IS Doc 049/00, 20 March 2000

[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 25.224: Physical layer procedures (TDD).
[23]	3GPP TS 25.221: Physical Channels and mapping of Transport Channels onto Physical channels (TDD)".
[24]	3GPP TS 25.222: Multiplexing and Channel Coding (TDD)

Introduction

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

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

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

This document addresses the FDD mode as well as the TDD mode. Due to the fact that TDD is not a requirement for release 99, much emphasis has gone in defining the FDD environments. Some TDD definitions have been also included where possible. The TDD mode, however, needs some further studies and refinement in the future.

6.6 Power control mode

6.6.1 Downlink Power Control

6.6.1.1 Outer Loop Power Control

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

6.6.1.2 Inner Loop Power Control

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

6.6.2 Uplink Power Control

6.6.2.1 Outer Loop Power Control

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

6.6.2.2 Inner Loop Power Control (FDD)

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

3GPP TSG-T1 SWG SIG Meeting #15 Copenhagen, Denmark, 5th-7th February 2001

T1S-010028

		CHANGE	DEOIII	=QT			CR-Form-v3
		CHANGE	KEQUI	_31			
ж TS 34.	108 C	R 039	₩ rev	# (Current versi	3.2.0	*
For <u>HELP</u> on usir	ng this form,	see bottom of this	page or loo	k at the	pop-up text	over the # syi	mbols.
Proposed change aff	fects: # ((U)SIM ME	/UE <mark>X</mark> Ra	dio Acce	ess Network	Core Ne	etwork
Title: 第二	Simulated ne	twork environme	nts for TDD n	node (SI	IB)		
Source: # 3	Siemens AG						
Work item code: ♯ (Conformance	e testing for UE (T	DD)		Date: ₩	5.Feb.2001	
Category:	F			,	Release: ೫	R99	
Use one of the following categories: F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification) E (Release 1999) Detailed explanations of the above categories can performance of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1999) REL-4 (Release 4) E (Release 5)							
Reason for change: # Different SIB specified in TS 25.331 for FDD and TDD							
Summary of change: System Information Blocks for TDD mode SIB 3, 4, 7, 11, 12 are added. SIB 5,6 and Default Radio Conditions for Multi-Cell Environment (TDD) <ffs> SIB 8, 9, 10 (only for FDD)</ffs>					<ffs></ffs>		
Consequences if not approved:	*						
Clauses affected:	# Clause 6	5.1					
Other specs affected:	Test s	core specification specifications Specifications	ns #				
Other comments:							

6 Reference System Configurations

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

6.1 Simulated network environments

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

This version of the specification covers the simulation of the Single Mode FDD Network only to align with the Release 99 requirements. It will need to be extended in a later version to cover the Single Mode TDD network ease. 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.

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

Contents of Master Information Block PLMN	type is the case of GSM-MAP
- MIB value tag	1 (1 to 8)
- Supported PLMN types	COMMAD
- PLMN type - PLMN identity(GSM-MAP)	GSM-MAP
- MCC digit	Mobile Country Code(3 digit)
	According to the contents of USIM.
- MNC digit	Mobile Network Code(2-3 digit)
ANOL44 0 N. 4 1 1 4 4 5	According to the contents of USIM.
- ANSI-41 Core Network information - P_REV(Protocol revision level)	Not Present
- MIN_P_REV(Minimum protocol revision level)	
- SID(System identification)	
- NID(Network identification)	
- References to other system information blocks	
- Scheduling information - SIB type	Type1
- PLMN Value tag	1(1 to 256)
- Cell Value tag	Not Present
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS - SIB_OFF	
- SIB type	Type2
- PLMN Value tag	1(1 to 256)
- Cell Value tag	Not Present
- SEG_COUNT - SIB_REP	1 (1 to 16)
- SIB_POS	
- SIB_OFF	
- SIB type	Type3
- PLMN Value tag	Not Present
- Cell Value tag - SEG_COUNT	1 (1 to 4) 1 (1 to 16)
- SIB_REP	. (* 13 13)
- SIB_POS	
- SIB_OFF	Time 4
- SIB type - PLMN Value tag	Type4 Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS - SIB_OFF	
- SIB type	Type5
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT - SIB_REP	1 (1 to 16)
- SIB_POS	
- SIB_OFF	
- SIB type	Type6
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT - SIB_REP	1 (1 to 16)
- SIB_POS	
- SIB_OFF	
- SIB type	Type7
- PLMN Value tag - Cell Value tag	Not Present 1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	Type8
- SIB type - PLMN Value tag	Type8 Not Present
- Cell Value tag	1 (1 to 4)

- SEG_COUNT	1 (1 to 16)
- SIB_REP	. ()
- SIB_POS	
- SIB_OFF	
- SIB type	Type9
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	
- SIB_REP	1 (1 to 16)
- SIB_REF - SIB_POS	
_	
- SIB_OFF	Type10
- SIB type	Type10
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type11
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type12
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type13
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type13.1
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type13.2
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type13.3
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type13.4
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type14
- PLMN Value tag	Not Present

- Cell Value tag - SEG_COUNT 1 (1 to 4) 1 (1 to 16) - SIB_REP - SIB_KEF - SIB_POS - SIB_OFF - SIB type - PLIN Value tag Type15 Not Present 1 (1 to 4) - Cell Value tag - SEG_COUNT - SIB_REP - SIB_POS - SIB_OFF 1 (1 to 16) - SIB type Type16 Not Present 1 (1 to 4) - PLMN Value tag - Cell Value tag - SEG_COUNT 1 (1 to 16) - SIB_REP - SIB_POS - SIB_OFF

Contents of System Information Block type1 PLMN type is the case of GSM-MAP

Contents of System Information Block type i	PLIMIN type is the case of GSIM-MAP
- CN common GSM-MAP NAS system	
information	
- GSM-MAP NAS system information	Contains the PLMN Identity and Location Area Code
- MCC digit	Mobile Country Code(3 digit)
	According to the contents of USIM.
- MNC digit	Mobile Network Code(2-3 digit)
inito aigit	According to the contents of USIM.
- Location area code	0001H
- CN domain system information	000111
- CN domain identity	PS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	CON NUM
- GSM-MAP NAS system information	T.B.D
- CN domain specific DRX cycle length	7
coefficient	
- CN domain identity	CS
- CHOICE CN Type	GSM-MAP
- CN domain specific NAS system information	GSIVI-IVIAI
- GSM-MAP NAS system information	T.B.D
- CN domain specific DRX cycle length	7
coefficient	
- UE Timers and constants in CELL DCH	
-T304	Not Present – Use Default
-N304	7
-T308	Not Present – Use Default
-T309	8 seconds
-T310	Not Present
-N310	Not Present
-T311	Not Present
-T313	15 seconds
-N313	200
-T314	20 seconds
-T315	1800 seconds
-N315	1000
- UE Timers and constants in idle mode	
-T300	400 milliseconds
-N300	7
-T312	10 seconds
- N312	200

Contents of System Information Block type2

- URA identity	0000 0000 0000 0001B
- UE Timers and constants in connected mode	0000 0000 00012
- T301	2000 milliseconds
- N301	2
- T302	4000 milliseconds
- N302	3
- T303	2000 milliseconds
- N303	3
- T304	1000 milliseconds
- N304	3
- T305	60 minutes
- T306	120 minutes
- T307	50 seconds
- T308	320 milliseconds
- T309	8 seconds
- T310	320 milliseconds
- N310	5
- T311	500 milliseconds
- T312	5 seconds
- N312	200
- T313	10 seconds
- N313	200
- T314	20 seconds
- T315	30 seconds
- N315	200

Contents of System Information Block type3 (FDD)

References to other system information blocks Cell identity Cell selection and re-selection info Mapping info RAT Mapping Function Parameter List Function type Map_parameter_1 Map_parameter_1 Map_parameter_2 Upper_limit Cell selection_and_reselection_quality_ measure CHOICE mode Sintrasearch Sintersearch Sintersearch Sintersearch RAT identifier SearchRAT Simit_ShearchRAT Chyst1s Othyst2s Treselections HCS Serving cell information HCS_PRIO OQualmin CRICK Maximum allowed UL TX power CHOICE mode Cell Reserved for operator use Cell Reserved for Sol.SA exclusive use Access Class Barred1 Access Class Barred2 Access Class Barred3 Access Class Barred5 Access Class Barred5 Access Class Barred5 Access Class Barred6 Access Class Barred7 Access Class Barred7 Access Class Barred9 Access Class Barred9 Access Class Barred9 Access Class Barred1 Access Class Barred9 Access Class Barred9 Access Class Barred9 Access Class Barred1 Access Class Barred9 Access Class Barred9 Access Class Barred9 Access Class Barred9 Access Class Barred1 Access Class Barred9 Access Class Barred9 Access Class Barred9 Access Class Barred1 Access Class Barred1 Access Class Barred9 Access Class Barred9 Access Class Barred1 Access Class Barred1 Access Class Barred1 Access Class Barred9 Access Class Barred9 Access Class Barred1 Access Class Barred1 Access Class Barred1 Access Class Barred9 Not barred	Contents of System Information Block type3	<u>(FDD)</u>
- Cell identity	- References to other system information blocks	Not Present
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- Access Class Barred3 - Access Class Barred4 - Access Class Barred5 - Access Class Barred6 - Access Class Barred7 - Access Class Barred8 - 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 Not barred Not barred Not barred Not barred	- Access Class Barred1	Not barred
- Access Class Barred4 - Access Class Barred5 - Access Class Barred6 - Access Class Barred7 - Access Class Barred8 - 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 Not barred Not barred Not barred Not barred	- Access Class Barred2	Not barred
- 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 Not barred Not barred	- Access Class Barred3	Not barred
- 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 Not barred Not barred Not barred	- Access Class Barred4	Not barred
- 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 Not barred Not barred Not barred Not barred	- Access Class Barred5	Not barred
- 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 Not barred Not barred Not barred	- Access Class Barred6	Not barred
- Access Class Barred9 - Access Class Barred10 - Access Class Barred11 - Access Class Barred12 - Access Class Barred13 - Access Class Barred14 Not barred Not barred Not barred Not barred	- Access Class Barred7	Not barred
- Access Class Barred9 - Access Class Barred10 - Access Class Barred11 - Access Class Barred12 - Access Class Barred13 - Access Class Barred14 Not barred Not barred Not barred Not barred	- Access Class Barred8	
- Access Class Barred11 Not barred - Access Class Barred12 Not barred - Access Class Barred13 Not barred - Access Class Barred14 Not barred	- Access Class Barred9	Not barred
- Access Class Barred11 Not barred - Access Class Barred12 Not barred - Access Class Barred13 Not barred - Access Class Barred14 Not barred	- Access Class Barred10	
- Access Class Barred12 Not barred - Access Class Barred13 Not barred - Access Class Barred14 Not barred	- Access Class Barred11	
- Access Class Barred14 Not barred		
	- Access Class Barred13	Not barred
	- Access Class Barred14	Not barred
Notice State Surroute	- Access Class Barred15	Not barred

Contents of System Information Block type3 (TDD)

Contonio di Cystom information Bissit typos	(TDD)
- SIB4 Indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	0000 0000 0000 0000 0000 0001B
- Mapping info	
<u>- RAT</u>	UTRA TDD
- Mapping Function Parameter List	1
- Function type	Linear
- Map parameter 1	
	$\begin{bmatrix} \frac{1}{1} \end{bmatrix}$
- Map parameter 2	
- Upper_limit	<u>1</u>
Cell selection_and_reselection_quality	Not present
measure	
- CHOICE mode	TDD
- Sintrasearch	10 dB
- Sintersearch	<u>10 dB</u>
- SsearchHCS	<u>10 dB</u>
- RAT List	For conformance testing in Japan, this IE is omitted. For
	conformance testing in European countries, this IE is
	present with the following values.
- RAT identifier	process with the following values.
- Ssearch,RAT	
- SHCS,RAT	Not present
- Slimit,ShearchRAT	Not Present
- Qhyst1s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	<u>0 30001103</u>
- HCS_PRIO	
<u>- QHCS</u>	
- TCRMAX	Not used
- NCR	Not Present
- TCMAXHyst	Not Present
- Maximum allowed UL TX power	30dBm
- CHOICE mode	TDD
Qrxlevmin	<u>-103 dBm</u>
- Cell Access Restriction	
- Cell barred	Not barred
- Cell Reserved for operator use	Not reserved
- Cell Reserved for SoLSA exclusive use	Not reserved
- 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 type4 In connected mode (similar to SIB type3) (FDD)

Defense and to other systems information blocks	Not Dropout
- References to other system information blocks	Not Present
- Cell identity	0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- RAT	UTRA FDD
- Mapping Function Parameter List	Not Present
- Function type	
- Map_parameter_1	
- Map_parameter_2	
- Upper_limit	
	CPICH Ec/N0
Coll coloction and recoloction quality measur	01 1011 20/110
Cell_selection_and_reselection_quality_measur	
e	FDD
- CHOICE mode	FDD
- Sintrasearch	16 dB
- Sintersearch	16 dB
- SsearchHCS	10 dB
- RAT List	
- RAT identifier	Not Present
- Ssearch,RAT	
- SHCS,RAT	
- Slimit,ShearchRAT	Not Present
- Qhyst1s	0 dB
1 · · · · · · · · · · · · · · · · · · ·	0 dB
- Qhyst2s	0 seconds
- Treselections	o seconds
- HCS Serving cell information	
- HCS_PRIO	0
- QHCS	0
- TCRMAX	Not used (not used, 30, 60, 120, 180, 240)
- NCR	Not Present
- TCMAXHyst	Not Present
- Maximum allowed UL TX power	33dBm
- CHOICE mode	FDD
- Qqualmin	-20 dB
- Qrxlevmin	-115 dBm
- Cell Access Restriction	
- Cell barred	Not barred(not barred, barred)
- Access Class Barred	Not barred(not barred, barred)
- Cell Reserved for operator use	Not reserved(reserved, not reserved)
- Cell Reserved for SoLSA exclusive use	Not reserved(reserved, not reserved)
- 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 type4 In connected mode (similar to SIB type3) (TDD) - Cell identity 0000 0000 0000 0000 0000 0000 0001B - Cell selection and re-selection info - Mapping info - Mapping list - RAT **UTRA TDD** - Mapping Function Parameter List - Function type Linear - Map_parameter_1 1 - Map parameter 2 <u>1</u> - Upper_limit 1 Not present Cell_selection_and_reselection_quality_measur - CHOICE mode **TDD** 10 dB - Sintrasearch 10 dB - Sintersearch - SsearchHCS 10 dB - RAT List For conformance testing in Japan, this IE is omitted. For conformance testing in European countries, this IE is present with the following values - RAT identifier - Ssearch, RAT - SHCS,RAT - Slimit,ShearchRAT **Not Present** 0 dB - Qhyst1s - Treselections 0 seconds - HCS Serving cell information - HCS_PRIO 0 - QHCS 0 - TCRMAX Not used - NCR **Not Present Not Present** - TCMAXHyst - Maximum allowed UL TX power <u>30dBm</u> - CHOICE mode **TDD** -103 dBm - Qrxlevmin - Cell Access Restriction - Cell barred Not barred - Access Class Barred Not barred - Cell Reserved for operator use Not reserved - Cell Reserved for SoLSA exclusive use Not reserved - 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



References to other system information blocks PICH Power offset	Contents of System Information Block type5_	(FDD)
- PICH Power offset - Primary CCPCH Info - TX Diversity indicator - PRACH system information - PRACH info - CHOICE mode - Available SF - Primarble Standbring code number - Puncturing Limit - Available Sb Channel number - Transport Channel Identity - Transport Channel Identity - RACH TFS - Dynamic Transport format information - Number of Transport format information - Transmission time interval - Type of channel coding - Coding Rale - Rale matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - TFCI Field 1 information - TFCI Field 1 information - CHOICE TFC Size - CTFC information - CHOICE TFC Size - CTFC information - Power offset information - Power offset information - CHOICE Gain Factors - Gain factor & G - Gain factor & G - Gain factor & G - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available	- References to other system information blocks	Not Present
PRACH info - CHOICE mode - Available Signature - Available Sibure Change Information - PRACH system information - Prace State Sub Channel Info - CHOICE mode - Available Signature - Available Sibure Channel Start Index - Available Signature End Index -		0dB
- TX Diversity indicator - PRACH info - CHOICE mode - Available Signature - Available SF - Preamble scrambling code number - Puncturing Limit - Available Sub Channel number - Transport Channel Identity - RACH TFS - Dynamic Transport format information - Number of Transport blocks - RLC size - Semi-static Transport Format information - Transmission time interval - CRC size - Cading Rate - Rate matching attribute - CRC size - CHOICE TFCS representation - TFCI Field 1 information - CHOICE TFCS representation - CHOICE TFCS representation - CHOICE Gain Factors - Gain factor & - Gain factor & - Gain factor & - Gain factor & - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Avai	- AICH Power offset	0dB
- PRACH info - CHOICE mode - Available Signature - Available Sub Channel number - Transport Channel Identity - RACH TFS - Semi-static Transport format information - Number of Transport blocks - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC Size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE TFCS representation - TFCS addition information - CHOICE Grian Factors - Gain factor & C - Gan factor & C - Gan factor & C - Sam factor & C - Wailable signature End Index - Available sub-channel Start Index - Available signature End Index - Available	- Primary CCPCH info	
- PRACH info - CHOICE mode - Available Signature - Available SF - Preamble scrambling code number - Puncturing Limit - Available Sub Channel number - Transport Channel Identity - RACH TFS - Oynamic Transport format information - Number of Transport blocks - RLC size - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - TFCI Saddition information - CHOICE TFC Size - CTFC information - CHOICE Gain Factors - Gain factor Rd - Reference Tro Ibanel Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start	- TX Diversity indicator	FALSE
- CHOICE mode - Available Signature - Available Signature - Preamble scrambling code number - Puncturing Limit - Available Sub Channel number - Transport Channel Identity - RACH TFS - Symistric Transport format information - Number of Transport Format information - Number of Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE TFCS representation - TFCS addition information - CHOICE TFCS representation - CHOICE TFC Size - Can factor & - Gain factor & - Gain factor & - Reference TFC ID - Power offset information - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Brd Index - Available signature Brd Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available	- PRACH system information	
- Available Signature - Available SF - Preamble scrambling code number - Puncturing Limit - Available Sub Channel number - Transport Channel Identity - RACH TFS - Oynamic Transport format information - Number of Transport format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - THCI Field 4 information - CHOICE TFC Srepresentation - TFCS addition information - CHOICE Gain Factors - Gain factor & - Gain factor & - Gain factor Rd - Reference To Clause Both Parameter Set (This IE is repeated for TFI number) - Reference to clause 6.10 Parameter Set - Reference to clause 6.1	- PRACH info	
- Available SF - Preamble scrambling code number - Puncturing Limit - Available Sub Channel number - Transport Channel Identity - RACH TFS - Symmic Transport format information - Number of Transport Format information - Number of Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC Size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE Gain Factors - Gain factor & - Gain factor & - Gain factor & - Gain factor & - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available		
Preamble scrambling code number Puncturing Limit Available Sub Channel number Transport Channel Identity RACH TFS Oynamic Transport format information Number of Transport blocks RLC size Semi-static Transport Format information Transmission time interval Coding Rate Rate matching attribute Reference to clause 6.10 Parameter Set		
- Puncturing Limit - Available sub Channel number - Transport Channel Identity - RACH TFS - Dynamic Transport format information - Number of Transport blocks - RLC size - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE Gain Factors - Gain factor f& - Gain factor f& - Gain factor f& - Reference Transport Form diause 6.10 Parameter Set (This IE is repeated for TFI number) Reference to clause 6.10 Parameter Set Reference to claus		
- Available Sub Channel number - Transport Channel Identity - RACH TFS - Dynamic Transport format information - Number of Transport blocks - RLC size - Semi-static Transport Format information - Transmission time interval - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - TFCS addition information - CHOICE TFCS representation - TFCS addition information - CHOICE TFC Size - Cain factor fix - Gain factor fix - Gain factor fix - Reference triangled for TFC number.) Addition - CHOICE Gain Factors - Gain factor fix - Gain factor fix - Reference triangled for TFC number.) Addition - CHOICE Gain Factors - Gain factor fix - Reference triangled for TFC number.) Addition - CHOICE TFC Size - CTFC information - CHOICE Gain Factors - Gain factor fix - Reference triangled for TFC number.) Addition - CHOICE TFC Size - CTFC information - Power offset information - Power offset information - Power offset pp-m - PRACH partitioning - Access Service Class - Axc Settings - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available signature End Index -		
- Transport Channel Identity - RACH TFS - Dynamic Transport format information - Number of Transport blocks - RLC size - Semi-static Transport format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - CHOICE TFCS representation - CHOICE Gain Factors - Gain factor f& - Reference TrC ID - Power offset information - Available signature Start Index - Available signature End Index - Available signat		
- RACH TFS - Dynamic Transport format information - Number of Transport blocks - RLC size - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - CHOICE TFCS representation - CHOICE Gain Factors - Gain factor & - Gain factor & - Gain factor & - Gain factor & - Available signature End Index - Available signature Start Index - Available signature End Index - Available si		
- Dynamic Transport format information - Number of Transport blocks RLC size - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFC Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE TFC Size - CTFC information - CHOICE Gain Factors - Gain factor ßd - Reference to fause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Re		1
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- RLC size - Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE Gair Factors - Gain factor ßc - Gain factor ßc - Gain factor ßc - Reference TFC ID - Power offset information - PRACH partitioning - Access Service Class - ASC Settings - Available signature End Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index		(This IE is repeated for TFI number)
- Semi-static Transport Format information - Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - CHOICE GTG Size - Gain factor ß - Gain factor ß - Reference To Size - Gain factor ß - Reference To Clause 6.10 Parameter Set Reference to clause 6.10 Refer Reference to clause 6.10 Parameter Set Reference to clause 6.10 Refer Refere		
- Transmission time interval - Type of channel coding - Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE Gain Factors - Gain factor ßd - Gain factor ßd - Gain factor ßd - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - Available signature Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available sub-channel End Index - Available signature Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index -	1	Reference to clause 6.10 Parameter Set
- Type of channel coding - Coding Rate - Rate matching attribute - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE TFCS representation - TFCS addition information - CHOICE GTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Gain factor ßc - Gain factor ßc - Gain factor ßc - Gain factor ßc - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - Available signature End Index - Available signature Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available signatu		Defended to clause 0.40 Demonstration Oct
- Coding Rate - Rate matching attribute - CRC size - RACH TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE TFC Size - CTFC information - CHOICE Gain Factors - Gain factor ßc - Gain factor ßc - Gain factor ßc - Gain factor ßc - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - Available signature End Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index - Available sub-channel End Index -		
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- TFCI Field 1 information - CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Gain factor & C - Gain factor & C - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index -		(This is repeated for TPC humber.)
- CHOICE TFCS representation - TFCS addition information - CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Gain factor ßc - Gain factor ßc - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Avail		
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- CHOICE CTFC Size - CTFC information - Power offset information - CHOICE Gain Factors - Gain factor & C - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signatur		Addition
- CTFC information - Power offset information - CHOICE Gain Factors - Gain factor & 0 - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Ava		Number of hits used must be enough to cover all
- CTFC information - Power offset information - CHOICE Gain Factors - Gain factor ßc - Gain factor ßd - Reference TFC ID - Power offset Pp-m - PRRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - A	- CHOICE CTI C Size	
- Power offset information - CHOICE Gain Factors - Gain factor ßc - Gain factor ßd - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available sub-channel Start Index - Available signature End Index - Available sub-channel Start Index - Available signature Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature End	- CTEC information	
- CHOICE Gain Factors - Gain factor ßC - Gain factor ßC - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signa		There to clause 6.101 drameter set
- Gain factor ßc - Gain factor ßd - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - Ayailable signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available sub-channel Start Index - Available signature Start Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - A		Signalled Gain Factor
- Gain factor ßd - Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available sub-channel End Index - Available sub-channel End Index - Available sub-channel End Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available signature Start Index - Available sig		
- Reference TFC ID - Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature Star		
- Power offset Pp-m - PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available sub-channel Start Index - Available signature Start Index - Available sig		
- PRACH partitioning - Access Service Class - ASC Settings - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available s		
- Access Service Class - ASC Settings - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature Start In		
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- Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available signature End Index - Availa		0 (ASC#0)
- Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available signature Start Index - Available Start Index - Available		
- Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available sub-channel Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End	- Available sub-channel Start Index	0 (ASC#0)
- Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available Signatur	- Available sub-channel End Index	
- Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available Start Index - Available Start Index - Available Start Index - Available Start Index - Availa	- Available signature Start Index	0 (ASC#1)
- Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Avai	 Available signature End Index 	7 (ASC#1)
- Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available signature Start Index - Availabl	 Available sub-channel Start Index 	0 (ASC#1)
- Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Availa	- Available sub-channel End Index	10 (ASC#1)
- Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index - Availabl		0 (ASC#2)
- Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Av		7 (ASC#2)
- Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Availabl		
- Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Avai		
- Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel Start Index - Available signature Start Index	<u> </u>	· · · · · · · · · · · · · · · · · · ·
 - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available si		· · · · · · · · · · · · · · · · · · ·
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- Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index		
 - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index 		
 - Available sub-channel End Index - Available signature Start Index - Available signature End Index - Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index 		
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- Available sub-channel Start Index - Available sub-channel End Index - Available signature Start Index 0 (ASC#5) 6 (ASC#5) 0 (ASC#6)	<u> </u>	
- Available sub-channel End Index - Available signature Start Index 0 (ASC#5) 0 (ASC#6)		
- Available signature Start Index 0 (ASC#6)		
- Available signature Life index / (ASC#0)		
	, wallable signature Life index	

- Available sub-channel Start Index	0 (ASC#6)
- Available sub-channel End Index	5 (ASC#6)
- Available signature Start Index	0 (ASC#7)
- Available signature End Index	7 (ASC#7)
Available signature End midex Available sub-channel Start Index	
	0 (ASC#7)
- Available sub-channel End Index	4 (ASC#7)
- 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)
<u> </u>	
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	- / ·
- AC-to-ASC mapping	6 (AC0-9)
 AC-to-ASC mapping 	5 (AC10)
 AC-to-ASC mapping 	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	Reference to clause 6.10 Parameter Set
- Constant value	Reference to clause 6.10 Parameter Set
- PRACH power offset	
- Power Ramp Step	3dB
- Preamble Retrans Max	2
- RACH transmission parameters	
- Mmax	2
- NB01min	3 slot
- NB01max	10 slot
	10 5101
- AICH info	4 (4 (45)
- Secondary scrambling code	1 (1 to 15)
- Channelisation code	SF-1(SF is reference to clause 6.10 Parameter Set)
- STTD indicator	FALSE
 AICH transmission timing 	0
- Secondary CCPCH system info	
- Secondary CCPCH info	
- Primary CPICH usage for channel estimation	Primary CPICH may be used
- Secondary CPICH info	Not Present
- Secondary scrambling code	Not i lesent
- Channelisation code	
- STTD indicator	
 Secondary scrambling code 	1
- STTD indicator	FALSE
- Spreading factor	Reference to clause 6.10 Parameter Set
- Code number	SF-1(SF is reference to clause 6.10 Parameter Set)
- Pilot symbol existence	FALSE '
- TFCI existence	TRUE
- Fixed or Flexible position	Flexible
- Timing offset	(This IF is were extend for TEC recomber for BOLL and EACLL)
- TFCS	(This IE is repeated for TFC number for PCH and FACH.)
- Normal	
- TFCI Field 1 information	
 CHOICE TFCS representation 	Addition
- TFCS addition information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all
	Number of bits used must be enough to cover all combinations of CTFC from clause 6.10.
- CHOICE CTFC Size	combinations of CTFC from clause 6.10.
- CHOICE CTFC Size - CTFC information	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set
CHOICE CTFC SizeCTFC informationPower offset information	combinations of CTFC from clause 6.10.
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH)
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH)
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS - Dynamic Transport format information	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH) (This IE is repeated for TFI number.)
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH)
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS - Dynamic Transport format information	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH) (This IE is repeated for TFI number.)
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS - Dynamic Transport format information - Number of Transport blocks - RLC Size	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH) (This IE is repeated for TFI number.) Reference to clause 6.10 Parameter Set
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS - Dynamic Transport format information - Number of Transport blocks	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH) (This IE is repeated for TFI number.) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS - Dynamic Transport format information - Number of Transport blocks - RLC Size - Semi-static Transport Format information - Transmission time interval	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH) (This IE is repeated for TFI number.) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set
- CHOICE CTFC Size - CTFC information - Power offset information - FACH/PCH information - Transport Channel Identity - TFS - Dynamic Transport format information - Number of Transport blocks - RLC Size - Semi-static Transport Format information	combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set Not Present 1 (for PCH) (PCH) (This IE is repeated for TFI number.) Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set

- Rate matching attribute

- CRC size

- Transport Channel Identity

- TFS

- Dynamic Transport format information

- Number of Transport blocks

- RLC Size

- Semi-static Transport Format information

- Transmission time interval

- Type of channel coding

- Coding Rate

- Rate matching attribute

- CRC size

- CTCH indicator

- PICH info

- Secondary scrambling code

- Channelisation code

- Number of PI per frame

- STTD indicator

- CBS DRX Level 1 information

Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set 2 (for FACH)

(FACH)

(This IÉ is repeated for TFI number.)
Reference to clause 6.10 Parameter Set
Reference to clause 6.10 Parameter Set

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

2

SF-1(SF is reference to clause 6.10 Parameter Set)

18 FALSE Not Present Contents of System Information Block type5 (TDD)

<FFS>

Contents of System Information Block type6	In connected mode (similar to SIB type5) (FDD)
- References to other system information blocks	Not Present
- PICH power offset	0 dB
- AICH power offset	0 dB
- Primary CCPCH info	FALOE
- TX Diversity indicator	FALSE
- PRACH system information - PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	Reference to clause 6.10 Parameter Set
- Preamble scrambling code number	0
- Puncturing Limit	Reference to clause 6.10 Parameter Set
- Available Sub Channel number	'1111 1111 1111'B
- Transport Channel Identity	1
- RACH TFS	(This IE is reported for TEL number)
Dynamic Transport format information Number of Transport blocks	(This IE is repeated for TFI number) Reference to clause 6.10 Parameter Set
- RLC size	Reference to clause 6.10 Parameter Set
- Semi-static Transport Format information	
- Transmission time interval	Reference to clause 6.10 Parameter Set
- Type of channel coding	Reference to clause 6.10 Parameter Set
- Coding Rate	Reference to clause 6.10 Parameter Set
- Rate matching attribute	Reference to clause 6.10 Parameter Set
- CRC size	Reference to clause 6.10 Parameter Set
- RACH TFCS - Normal	(This IE is repeated for TFC number.)
- TFCI Field 1 information	
- CHOICE TFCS representation	Addition
- TFCS addition information	
- CHOICE CTFC Size	Number of bits used must be enough to cover all
	combinations of CTFC from clause 6.10.
- CTFC information	Refer to clause 6.10 Parameter Set
- Power offset information	Cinnallad Onio Factor
- CHOICE Gain Factors - Gain factor ßc	Signalled Gain Factor 0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
- PRACH partitioning	
- Access Service Class	
- ASC Settings	2 (122 (12)
- Available signature Start Index	0 (ASC#0)
- Available signature End Index - Available sub-channel Start Index	7 (ASC#0)
- Available sub-channel End Index	0 (ASC#0) 11 (ASC#0)
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- Available sub-channel Start Index	0 (ASC#1)
- Available sub-channel End Index	10 (ASC#1)
- Available signature Start Index	0 (ASC#2)
- Available signature End Index	7 (ASC#2)
- Available sub-channel Start Index - Available sub-channel End Index	0 (ASC#2)
Available sub-channel End index Available signature Start Index	9 (ASC#2) 0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- Available sub-channel Start Index	0 (ASC#3)
- Available sub-channel End Index	8 (ASC#3)
- Available signature Start Index	0 (ASC#4)
- Available signature End Index	7 (ASC#4)
- Available sub-channel Start Index	0 (ASC#4)
- Available sub-channel End Index	7 (ASC#4)
Available signature Start IndexAvailable signature End Index	0 (ASC#5) 7 (ASC#5)
- Available signature End Index - Available sub-channel Start Index	0 (ASC#5)
- Available sub-channel End Index	6 (ASC#5)
- Available signature Start Index	0 (ASC#6)
- Available signature End Index	7 (ASC#6)

- Available sub-channel Start Index 0 (ASC#6) - Available sub-channel End Index 5 (ASC#6) - Available signature Start Index 0 (ASC#7) - Available signature End Index 7 (ASC#7) - Available sub-channel Start Index 0 (ASC#7) - Available sub-channel End Index 4 (ASC#7) - Persistence scaling factor - Persistence scaling factor 0.9 (for ASC#2) 0.9 (for ASC#3) - Persistence scaling factor - Persistence scaling factor 0.9 (for ASC#4) - Persistence scaling factor 0.9 (for ASC#5) 0.9 (for ASC#6) - Persistence scaling factor 0.9 (for ASC#7) - Persistence scaling factor - AC-to-ASC mapping table Not Present AC-to-ASC mapping - Primary CPICH DL TX power Reference to clause 6.10 Parameter Set - Constant value Reference to clause 6.10 Parameter Set - PRACH power offset 3dB - Power Ramp Step - Preamble Retrans Max 2 - RACH transmission parameters - Mmax 2 - NB01min 3 slot - NB01max 10 slot - AICH info - Secondary scrambling code 1 (1 to 15) - Channelisation code SF-1(SF is reference to clause 6.10 Parameter Set) - STTD indicator **FALSE** - AICH transmission timing 0 - Secondary CCPCH system info - Secondary CCPCH info - Primary CPICH usage for channel estimation Primary CPICH may be used - Secondary CPICH info Not Present - Secondary scrambling code - Channelisation code - STTD indicator - Secondary scrambling code - STTD indicator **FALSE** - Spreading factor Reference to clause 6.10 Parameter Set - Code number Reference to clause 6.10 Parameter Set - Pilot symbol existence **FALSE** - TFCI existence **TRUE** - Fixed or Flexible position Flexible - Timing offset (This IE is repeated for TFC number for PCH and FACH.) - TFCS - Normal - TFCI Field 1 information - CHOICE TFCS representation Addition - TFCS addition information - CHOICE CTFC Size Number of bits used must be enough to cover all combinations of CTFC from clause 6.10. Refer to clause 6.10 Parameter Set - CTFC information - Power offset information Not Present - FACH/PCH information - Transport Channel Identity 1 (for PCH) (PCH) - Dynamic Transport format information (This IE is repeated for TFI number.) - Number of Transport blocks Reference to clause 6.10 Parameter Set - RLC Size Reference to clause 6.10 Parameter Set - Semi-static Transport Format information Reference to clause 6.10 Parameter Set - Transmission time interval - Type of channel coding Reference to clause 6.10 Parameter Set - Coding Rate Reference to clause 6.10 Parameter Set

- Rate matching attribute

- CRC size

- Transport Channel Identity

- TFS

- Dynamic Transport format information

- Number of Transport blocks

- RLC Size

- Semi-static Transport Format information

- Transmission time interval

- Type of channel coding

- Coding Rate

- Rate matching attribute

- CRC size

- CTCH indicator

- PICH info

- Secondary scrambling code

- Channelisation code

- Number of PI per frame

- STTD indicator

- CBS DRX Level 1 information

Reference to clause 6.10 Parameter Set Reference to clause 6.10 Parameter Set 2 (for FACH)

(FACH)

(This IÉ is repeated for TFI number.)
Reference to clause 6.10 Parameter Set
Reference to clause 6.10 Parameter Set

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

2

SF-1(SF is reference to clause 6.10 Parameter Set)

18 FALSE Not Present Contents of System Information Block type6 In connected mode (similar to SIB type5) (TDD) <FFS>

Contents of System Information Block type7 (FDD)

- UL interference	-100dBm(-110 to -70 dBm)
- PRACHs listed in system information block	
type5	
- Dynamic persistence level	2 (1 to 8)
- PRACHs listed in system information block	
type6	
- Dynamic persistence level	2 (1 to 8)

Contents of System Information Block type7 (TDD)

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

Contents of System Information Block type8,9 (only for FDD)

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

Contents of System Information Block type10 (only for FDD)

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

Contents of System Information Block type11 (FDD) - References to other system information blocks Not Present - FACH measurement occasion info Not Present k_UTRA - Other RAT present in intersystem cell info - RAT type - k_Intrer_Rat - Measurement control system information Not used - Use of HCS - Cell_selection_and_reselection_quality_-CPICH Ec/N0 measure - Intra-frequency measurement system information - Intra-frequency measurement identity number - Intra-frequency cell info list Not Present - Removed intra-frequency cells - Intra-frequency cell id - New intra-frequency cells - Intra-frequency cell id 0 - Cell info - Cell individual offset 0dB(-10,-9.5...10 by step of 0.5) - Reference time difference to cell Not Present - Primary CPICH info - Primary scrambling code The current value plus 50(When the current cell is cell No.8 then minus 50) - Primary CPICH TX power Not Present - Read SFN indicator **TRUE** - TX Diversity indicator **FALSE** - Cell Selection and Re-selection info - Qoffset1_{s.n} 0 dB - Qoffset2s.n 0 dB - Maximum allowed UL TX power 33 dBm Not Present - HCS neighbouring cell information - HCS PRIO - QHCS - HCS Cell Re-selection information - Penalty time - Temporary_offsets - Temporary_offset1 - Temporary_offset2 - CHOICE mode - Qqualmin - Qrxlevmin - Intra-frequency measurement quantity - Filter coefficient **CPICH RSCP** - Measurement quantity - Intra-frequency reporting quantity for RACH Reporting -SFN-SFN observed time difference No report - Reporting quantity No report - Maximum number of reported cells on RACH No report - Reporting information for state CELL_DCH - Measurement Report Transfer Acknowledged mode RLC - Periodic Reporting / Event Trigger Reporting Event trigger - Intra-frequency reporting quantity - Reporting quantities for active set cells - SFN-SFN observed time difference No report - Cell identity **TRUE** - CPICH Ec/N0 **FALSE** - CPICH RSCP **TRUE** - Pathloss **FALSE** - CFN-SFN observed time difference **TRUE** - Reporting quantities for monitored set cells

No report

TRUE

FALSE

TRUE

- SFN-SFN observed time difference

- Cell identity

- CPICH Ec/N0

- CPICH RSCP

- Pathloss
- CFN-SFN observed time difference
- Reporting quantities for detected set cells
- SFN-SFN observed time difference
- Cell identity
- CPICH Ec/N0
- CPICH RSCP
- Pathloss
- CFN-SFN observed time difference
- Intra-frequency measurement reporting
- parameters required for each event
- intra-frequency event identity
- Triggering condition(mandatory in case of 1a,1b,1e,1f)
 - Reporting Range(optional in case of 1a,1b)
- cells forbidden to affect reporting

range(optional in case of 1a,1b)

- Primary CPICH info
- Primary scrambling code
- W(optional in case of 1a,1b)
- Hysteresis (mandatory in case of

1a,1b,1c,1d,1g,1h,1l,1j)

- Threshold used frequency (in case of 1e,1f,1h,1i,1j)
- Reporting deactivation threshold(mandatory in case of 1a)
 - Replacement activation

threshold(mandatory in case of 1c)

- Time to trigger
- Amount of reporting
- Reporting interval
- Reporting cell status
- CHOICE reporting cell
- Maximum number of reporting cells type 2
- Inter-frequency measurement system information
- Inter-frequency measurement identity number
- Inter-frequency cell info list
- Removed inter-frequency cells
- Inter-frequency cell id
- New inter-frequency cells
- Inter-frequency cell id
- Frequency info
- UARFCN uplink(Nu)
- UARFCN downlink(Nd)
- Cell info
- Cell individual offset
- Reference time difference to cell
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- Read SFN indicator
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffsets.n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- HCS_PRIO
- QHCS
- HCS Cell Re-selection information
- Penalty time
- Temporary_offsets
- Temporary_offset1
- Temporary_offset2
- CHOICE mode
- Qqualmin

FALSE FALSE Not Present

1a

monitored set cells

5dB

Not Present

1.0

0.0

T.B.D(-125..165)

1

Not Present(not applicable,1,2,3,4,5,6,7)

 $640 (0,10,20,40,60,80,100,120,160,200,240,320,640,1280\\,2560,5000)$

Infinity(1,2,4,816,32,64,Infinity)

0(0,250,500,1000,2000,4000,8000,16000 milliseconds)

Within monitored cells on used frequency and within monitored cells on non-used frequency

2

Not Present

- Qrxlevmin
- Inter-frequency measurement quantity
- Intra-frequency reporting criteria
 Intra-frequency measurement quantity
 Filter coefficient

 - Measurement quantity
- Inter-frequency reporting criteria
 Inter-frequency measurement quantity
- Filter coefficient
- Measurement quantity for frequency quality estimate
- Inter-frequency measurement reporting criteria
- Inter-system measurement system information Traffic volume measurement system information
- UE internal measurement system information

Not Present Not Present

Not Present

Contents of System Information Block type11 (TDD)

Contents of System Information Block type1	<u>1 (100)</u>
- SIB 12 Indicator	TRUE
- Measurement control system information	
- Use of HCS	Not used
- Cell selection and reselection quality -	Not present
measure	Not present
- Intra-frequency measurement system	
information	
- Intra-frequency measurement identity	<u>0</u>
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
 New intra-frequency cells 	
- Intra-frequency cell id	<u>0</u>
- Cell info	
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Primary CCPCH info	
- Primary CCPCH TX power	Not Present
- Timeslot list	Not Fresch
- Timeslot number	
- Burst type	
- Cell Selection and Re-selection info	
- Qoffset1 _{s,n}	<u>0</u>
 Maximum allowed UL TX power 	<u>30 dBm</u>
- HCS neighbouring cell information	Not Present
- CHOICE mode	
- Qrxlevmin	
- Intra-frequency measurement quantity	
- Filter coefficient	<u>0</u>
- Measurement list	<u>~</u>
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH	1-COLOTTION
Reporting	
	No see est
-SFN-SFN observed time difference	No report
- Reporting quantity list	
- Reporting quantity	No report
- Maximum number of reported cells on RACH	No report
 Reporting information for state CELL_DCH 	
- Measurement Report Transfer	Acknowledged mode RLC
- Periodic Reporting / Event Trigger Reporting	Event trigger
<u>Mode</u>	
 Intra-frequency reporting quantity 	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference	No report
reporting indicator	
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	100
- Proposal TSGN reporting indicator	
- P-CCPCH RSCP reporting indicator	
- Pathloss reporting indicator	
- Reporting quantities for monitored set cells	
 SFN-SFN observed time difference 	No report
reporting indicator	
 Cell synchronisation information reporting 	FALSE
indicator	
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	
- Proposal TSGN reporting required	
- P-CCPCH RSCP reporting indicator	
- Pathloss reporting indicator Paperting quantities for detected set calls	Not Procent
- Reporting quantities for detected set cells	Not Present
- Intra-frequency measurement reporting	
<u>criteria</u>	I

- parameters required for each event	1
- intra-frequency event identity	1a
- Triggering condition	Monitored set cells
- Reporting Range	
- cells forbidden to affect reporting range	Not Present
- Primary CCPCH info	
- CHOICE Sync case	
- Sync case 1	
- Timeslot	P-CCPCH RSCP
- Sync case 2	
- Timeslot	P-CCPCH RSCP
- Cell parameter ID	
- Block STTD indicator	
- W(optional in case of 1a,1b)	<u>1.0</u>
- Hysteresis	0.0
- Threshold used frequency	<u>T.B.D(-125165)</u>
- Reporting deactivation threshold	1
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	Infinity
- Reporting interval	<u>0</u>
- Reporting cell status	
- CHOICE reporting cell	Report cell within active set and/or monitored cells on
Manifestore according to the control of the control	used frequency
- Maximum number of reported cells	Not Decore
- Inter-frequency measurement system	Not Present
information Inter BAT management evetem information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	NOT FIESEIII
- UE internal measurement system information	Not Present
- OE Internal measurement system information	INOU FIESCHI

Contents of System Information Block type12 in connected mode (similar to SIB type11) (FDD)

- References to other system information blocks Not Present - FACH measurement occasion info Not Present - k UTRA - Other RAT present in intersystem cell info - RAT type - k_Intrer_Rat - Measurement control system information - Use of HCS Not used - Cell_selection_and_reselection_quality_-CPICH Ec/N0 measure - Intra-frequency measurement system information - Intra-frequency measurement identity number - Intra-frequency cell info list - Removed intra-frequency cells Not Present - Intra-frequency cell id - New intra-frequency cells - Intra-frequency cell id 0 - Cell info - Cell individual offset 0dB(-10,-9.5...10 by step of 0.5) - Reference time difference to cell Not Present - Primary CPICH info - Primary scrambling code The current value plus 50(When the current cell is cell No.8 then minus 50) Not Present - Primary CPICH TX power - Read SFN indicator **TRUE** - TX Diversity indicator **FALSE** - Cell Selection and Re-selection info - Qoffset1_{s,n} 0 dB - Qoffset2_{s,n} 0 dB - Maximum allowed UL TX power 33dBm - HCS neighbouring cell information Not Present - HCS_PRIO - QHCS - HCS Cell Re-selection information - Penalty_time - Temporary_offsets - Temporary_offset1 - Temporary_offset2 - CHOICE mode - Qqualmin - Qrxlevmin - Intra-frequency measurement quantity - Filter coefficient **CPICH RSCP** - Measurement quantity - Intra-frequency reporting quantity for RACH Reporting -SFN-SFN observed time difference No report - Reporting quantity No report - Maximum number of reported cells on RACH No report - Reporting information for state CELL_DCH - Measurement Report Transfer Acknowledged mode RLC - Periodic Reporting / Event Trigger Reporting Event trigger Mode - Intra-frequency reporting quantity - Reporting quantities for active set cells - SFN-SFN observed time difference No report - Cell identity **TRUE** - CPICH Ec/N0 **FALSE** - CPICH RSCP **TRUE FALSE** - Pathloss - CFN-SFN observed time difference **TRUE**

No report

Reporting quantities for monitored set cells
 SFN-SFN observed time difference

- Cell identity
- CPICH Ec/N0
- CPICH RSCP
- Pathloss
- CFN-SFN observed time difference
- Reporting quantities for detected set cells
- SFN-SFN observed time difference
- Cell identity
- CPICH Ec/N0
- CPICH RSCP
- Pathloss
- CFN-SFN observed time difference
- Intra-frequency measurement reporting criteria
 - parameters required for each event
 - intra-frequency event identity
- Triggering condition(mandatory in case of 1a,1b,1e,1f)
 - Reporting Range(optional in case of 1a,1b)
 - cells forbidden to affect reporting

range(optional in case of 1a,1b)

- Primary CPICH info
- Primary scrambling code
- W(optional in case of 1a,1b)
- Hysteresis (mandatory in case of

1a,1b,1c,1d,1g,1h,1l,1j)

- Threshold used frequency (in case of 1e,1f,1h,1i,1j)
- Reporting deactivation threshold(mandatory in case of 1a)
 - Replacement activation

threshold(mandatory in case of 1c)

- Time to trigger
- Amount of reporting
- Reporting interval
- Reporting cell status
- CHOICE reporting cell
- Maximum number of reporting cells type 2
- Inter-frequency measurement system information
- Inter-frequency measurement identity number
- Inter-frequency cell info list
- Removed inter-frequency cells
- Inter-frequency cell id
- New inter-frequency cells
- Inter-frequency cell id
- Frequency info
- UARFCN uplink(Nu)
- UARFCN downlink(Nd)
- Cell info
- Cell individual offset
- Reference time difference to cell
- Primary CPICH info
- Primary scrambling code
- Primary CPICH TX power
- Read SFN indicator
- TX Diversity indicator
- Cell Selection and Re-selection info
- Qoffsets,n
- Maximum allowed UL TX power
- HCS neighbouring cell information
- HCS_PRIO
- QHCS
- HCS Cell Re-selection information
- Penalty_time
- Temporary_offsets
- Temporary_offset1

TRUE FALSE

TRUE

FALSE

FALSE

Not Present

12

monitored set cells

5dB

Not Present

1.0

T.B.D(-125..165)

1

Not Present(not applicable, 1, 2, 3, 4, 5, 6, 7)

0(0,10,20,40,60,80,100,120,160,200,240,320,640,1280,2560,5000)

Infinity(1,2,4,816,32,64,Infinity)

0 (0,250,500,1000,2000,4000,8000,16000 milliseconds)

Within monitored cells on used frequency and within monitored cells on non-used frequency

2

Not Present

- Temporary_offset2	
- CHOICE mode	
- Qqualmin	
- Qrxlevmin	
 Inter-frequency measurement quantity 	
- Intra-frequency reporting criteria	
 Intra-frequency measurement quantity 	
- Filter coefficient	
 Measurement quantity 	
 Inter-frequency reporting criteria 	
 Inter-frequency measurement quantity 	
- Filter coefficient	
 Measurement quantity for frequency quality 	
estimate	
 Inter-frequency measurement reporting 	
criteria	
- Inter-system measurement system information	Not Present
- Traffic volume measurement system	Not Present
information	
	1

Not Present

- UE internal measurement system information

Contents of System Information Block type12 in connected mode (similar to SIB type11) (TDD)

Contents of System Information Block type1	2 in connected mode (similar to SIB type11) (TDD)
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality	Not present
<u>measure</u>	
- Intra-frequency measurement system	
information	
- Intra-frequency measurement identity	<u>0</u>
- Intra-frequency cell info list	Demonstrate from the second
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells - Intra-frequency cell id	0
- Cell info	0
- Cell individual offset	0dB
- Reference time difference to cell	Not Present
- Primary CCPCH info	
- Primary CCPCH TX power	Not Present
- Timeslot list	
- Timeslot number	
- Burst type	
- Cell Selection and Re-selection info	
- Qoffset1 _{s,n}	0
- Maximum allowed UL TX power	<u>30 dBm</u>
- HCS neighbouring cell information	Not Present
- CHOICE mode	
- Qrxlevmin	
- Intra-frequency measurement quantity	
<u>- Filter coefficient</u> <u>- Measurement list</u>	0
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH	<u>1-001 0111001</u>
Reporting	
-SFN-SFN observed time difference	No report
- Reporting quantity list	
- Reporting quantity	No report
- Maximum number of reported cells on RACH	No report
- Reporting information for state CELL_DCH	1
- Measurement Report Transfer	Acknowledged mode RLC
- Periodic Reporting / Event Trigger Reporting Mode	Event trigger
- Intra-frequency reporting quantity	
- Reporting quantities for active set cells	
- SFN-SFN observed time difference	No report
reporting indicator	110 TOPON
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	TRUE
- CHOICE mode	<u>TDD</u>
- Timeslot ISCP reporting indicator	
- Proposal TSGN reporting required	
- P-CCPCH RSCP reporting indicator	
- Pathloss reporting indicator - Reporting quantities for monitored set cells	
- SFN-SFN observed time difference	No report
reporting indicator	140 Topolt
- Cell synchronisation information reporting	FALSE
indicator	
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	
- Proposal TSGN reporting required	
- P-CCPCH RSCP reporting indicator	
- Pathloss reporting indicator	Not Propert
- Reporting quantities for detected set cells	Not Present
Intra-frequency measurement reporting criteria	
- parameters required for each event	
- intra-frequency event identity	<u>1a</u>
II	1 22

- Triggering condition	Monitored set cells
- Reporting Range	
- cells forbidden to affect reporting range	Not Present
- Primary CCPCH info	
- CHOICE Sync case	
- Sync case 1	
- Timeslot	P-CCPCH RSCP
- Sync case 2	
- Timeslot	P-CCPCH RSCP
- Cell parameter ID	
- Block STTD indicator	
- W(optional in case of 1a,1b)	1.0
- Hysteresis	0.0
- Threshold used frequency	<u>T.B.D(-125165)</u>
- Reporting deactivation threshold	<u>1</u>
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	<u>Infinity</u>
- Reporting interval	<u>0</u>
- Reporting cell status	
- CHOICE reporting cell	Report cell within active set and/or monitored cells on
	used frequency
 Maximum number of reported cells 	<u>2</u>
- Inter-frequency measurement system	Not Present
<u>information</u>	
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system	Not Present
<u>information</u>	
- UE internal measurement system information	Not Present

Default settings for cell No.1:

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

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:

or control with the following enceptions.	
Cell identity	0000 0000 0000 0000 0000 0000 0010B
URA identity	0000 0000 0000 0001B

Default settings for cell No.2:

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

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:

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

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:

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

Cell No.5

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

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

Default settings for cell No.5:

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

Cell No.6

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

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

Default settings for cell No.6:

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

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:

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

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:

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

Default Radio Conditions for Multi-Cell Environment_(FDD)

In the event that a multi-cell environment is applied by the System Simulator, the following transmission parameters shall be used unless otherwise stated in the description of individual test case.

Parameter	Unit	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6	Cell 7	Cell 8
UTRA RF Channel Number								Switched Off	Switched Off
CPICH_Ec/No	dB	-5	-15	-20	-24	-18	-10	-	-
CPICH RSCP	dBm	-60	-70	-75	-95	-73	-65	-	-
UTRA RSSI	dBm	-55	-55	-55	-55	-55	-55	-	-
Propagation Profile		Static							
Qrxlevmin Qrxqualmin	dBm dB	-90dBm -20dB	-90dBm -20dB	-90dBm -20dB	-90dBm -20dB	-90dBm -20dB	-70dBm -5dB		
UE_TXPWR_MAX _RACH	DBm	Max. RF Output of UE							
MNC		001D	001D	001D	001D	001D	001D		
MCC		01D	01D	01D	01D	02D	01D		
Cell barred		No	No	No	No	No	No	No	No

Default Radio Conditions for Multi-Cell Environment (TDD)

<FFS>