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	C	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

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

Tdoc T1-010078

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

Tdoc T1S-010005

CR-Form-v3

CHANGE REQUEST

⌘ **34.108 CR 032** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

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

Title:	⌘	Default radio conditions for multi-cell environment
Source:	⌘	Ericsson, Panasonic
Work item code:	⌘	***Date:*** ⌘ 2001-02-02
Category:	⌘	**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 one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change:	⌘	1. Currently, the radio conditions are specified for 6 cells simultaneously in use and can only be used for this number of cells. However, as test cases can use from 1 up to 6 cells, we must have setups consisting of 1 to 6 cells. 2. The cells are now specified so that Ior/Ioc and other conditions are identical. 3. Parameters already indicated in the default system information messages have been removed. 4. The radio conditions are now specified for both Idle and Connected mode.
Summary of change:	⌘	Radio conditions are specified for test configurations consisting of 1 up to 6 cells
Consequences if not approved:	⌘	Missing and inconsistent radio conditions for multi-cell environment

Clauses affected:	⌘	6.1, last table
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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	Parameter	Unit	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
	UTRA RF Channel Number		Ch. 1	Ch. 1	Ch. 1	Ch. 2	Ch. 2	Ch. 2
1	$\hat{I}_{or}/I_{oc}$	dB	8					
	CPICH_Ec/Io	dB	-10.6					
	CPICH RSCP	dBm	-72					
2	$\hat{I}_{or}/I_{oc}$	dB	8	8				
	CPICH_Ec/Io	dB	-13.3	-13.3				
	CPICH RSCP	dBm	-72	-72				
3	$\hat{I}_{or}/I_{oc}$	dB	8	8	8			
	CPICH_Ec/Io	dB	-15	-15	-15			
	CPICH RSCP	dBm	-72	-72	-72			
4	$\hat{I}_{or}/I_{oc}$	dB	8	8	8	8		
	CPICH_Ec/Io	dB	-15	-15	-15	-10.6		
	CPICH RSCP	dBm	-72	-72	-72	-72		
5	$\hat{I}_{or}/I_{oc}$	dB	8	8	8	8	8	
	CPICH_Ec/Io	dB	-15	-15	-15	-13.3	-13.3	
	CPICH RSCP	dBm	-72	-72	-72	-72	-72	
6	$\hat{I}_{or}/I_{oc}$	dB	8	8	8	8	8	8
	CPICH_Ec/Io	dB	-15	-15	-15	-15	-15	-15
	CPICH RSCP	dBm	-72	-72	-72	-72	-72	-72

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/Ior	dB	-10	-10	-10	-10	-10	-10
PCCPCH_Ec/Ior	dB	-12	-12	-12	-12	-12	-12
SCCPCH_Ec/Ior	dB	-12	-12	-12	-12	-12	-12
AICH_Ec/Ior	dB	-15	-15	-15	-15	-15	-15
SCH_Ec/Ior	dB	-12	-12	-12	-12	-12	-12
PICH_Ec/Ior	dB	-15	-15	-15	-15	-15	-15
DPCH_Ec/Ior	dB	-∞	-∞	-∞	-∞	-∞	-∞
OCNS_Ec/Ior	dB	-1.888	-1.888	-1.888	-1.888	-1.888	-1.888
I_{oc}	dBm/ 3.84 MHz	-70					
Propagation Condition~~Profile~~		AWGN~~Static~~					
UE_TXPWR_MAX_RACH	~~D~~dBm	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE

Table 6.1.3 Default radio conditions in Connected mode

Parameter	Unit	Cell 1	Cell 2	Cell 3	Cell 4	Cell 5	Cell 6
CPICH_Ec/Ior	dB	-10	-10	-10	-10	-10	-10
PCCPCH_Ec/Ior	dB	-12	-12	-12	-12	-12	-12
SCCPCH_Ec/Ior	dB	-12	-12	-12	-12	-12	-12
AICH_Ec/Ior	dB	-15	-15	-15	-15	-15	-15
SCH_Ec/Ior	dB	-12	-12	-12	-12	-12	-12
PICH_Ec/Ior	dB	-15	-15	-15	-15	-15	-15
DPCH_Ec/Ior	dB	- 15	- 15	- 15	- 15	- 15	- 15
OCNS_Ec/Ior	dB	-2.106	-2.106	-2.106	-2.106	-2.106	-2.106
I_{oc}	dBm/ 3.84 MHz	-70					
Propagation Condition		AWGN					
UE_TXPWR_MAX_RACH	dBm	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE

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3GPP TSG T1/SIG Meeting #15 ***Tdoc T1S-010010***
Copenhagen, Denmark, 5th – 7th February 2001

CR-Form-v3

CHANGE REQUEST

⌘ **34.108 CR 033** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

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

Title:	⌘	Correction for Generic Setup Procedures (34.108 clause 7.2)
Source:	⌘	NTT DoCoMo
Work item code:	⌘	***Date:*** ⌘
Category:	⌘	**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 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:	⌘	Correction for the current version.
Summary of change:	⌘	Correction of the figure based on the conbined procedure
Consequences if not approved:	⌘	Test environment will have differences with real environment.

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 ⌘ contain pop-up help information about the field that they are closest to.

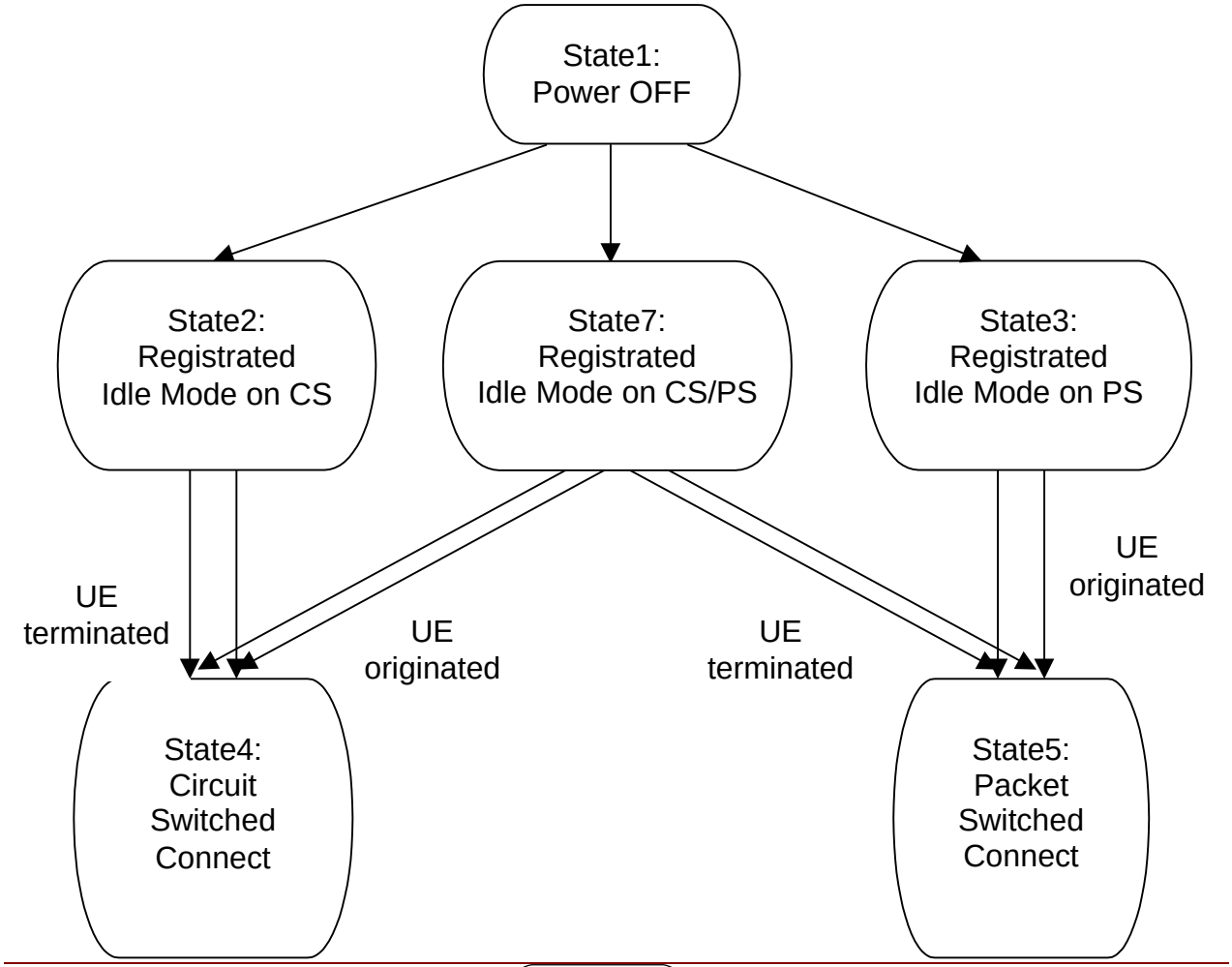
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://www.3gpp.org/specs/ For the latest 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



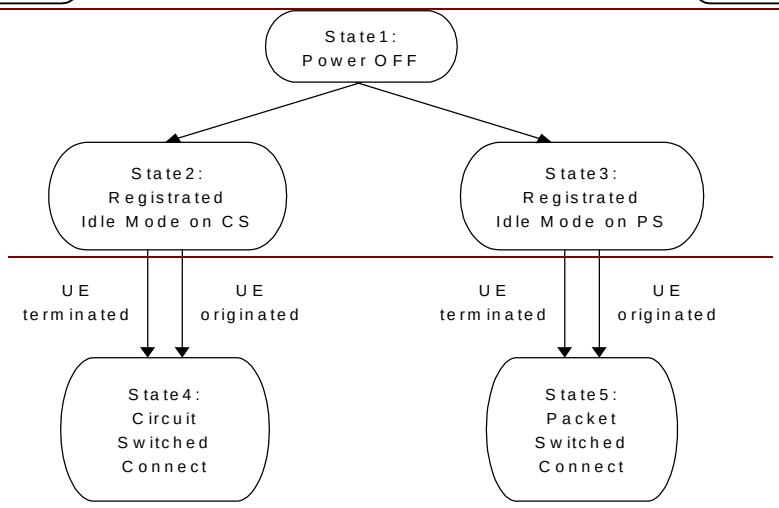


Figure 7.2.1.1: UE Test States for Generic setup procedures

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 ***Tdoc T1-010080***
Copenhagen, Denmark, 8-9 February, 2001

3GPP TSG T1/SIG Meeting #15 ***Tdoc T1S-010011***
Copenhagen, Denmark, 5th – 7th February 2001

CR-Form-v3

CHANGE REQUEST

⌘ **34.108 CR 034** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

Proposed change affects: ⌘ (U)SIM [X] 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:*** ⌘ 5th February 2001
Category:	⌘ **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 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: ⌘ 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.
$EF_{UPLMNsel} \rightarrow EF_{PLMNwAcT}$
$EF_{CCP} \rightarrow EF_{ECCP}$
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: ⌘ 8.3

Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

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

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

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_{Keys} (Ciphering and Integrity Keys)

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

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

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

8.3.2.5 $EF_{PLMNwAcT}$ (User controlled PLMN selector with Access Technology) ~~$EF_{UPLMNsel}$ (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:

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

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 EF_{GID1} (Group Identifier Level 1)

The programming of this EF is a test house option.

8.3.2.11 EF_{GID2} (Group Identifier Level 2)

The programming of this EF is a test house option.

8.3.2.12 EF_{SPN} (Service Provider Name)

The programming of this EF is a test house option.

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

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

~~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	
Default values (BIN):	Byte 1:	~~00000000~~000000**
	Byte 2:	********

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

Type B;

Default values (BIN):	Byte 1:	111110**
	Byte 2:	********

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

8.3.2.16 EF_{FPLMN} (Forbidden PLMNs)

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

~~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 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: ~~3~~ 4 bytes

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

Byte 2: 00000000~~11111111~~

Byte 3: 00000000~~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_{ECC} (Emergency Call Codes)

The programming of this EF is a test house option.

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

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

8.3.2.23 EF_{PSLOCI} (Packet Switched location information)

File size: 14 Bytes

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

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

Bytes 8-13 (HEX): 42 F6 18 FF FE FF (RAI)

Byte 14 (BIN): 00000001 (Routing Area update status = "not updated")

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

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

8.3.2.24 EF_{FDN} (Fixed Dialling Numbers)

The programming of this EF follows default parameter written in 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)

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

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 $EF_{Hiddenkey}$ (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)

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

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

The programming of this EF follows default parameter written in 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 $EF_{PHPLMNAT}$ (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)

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

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

The programming of this EF follows default parameter written in 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_{SNE} (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)

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

8.3.3.2.12 Phone Book Synchronisation

8.3.3.2.12.1 EF_{UID} (Unique Identifier)

The programming of this EF follows default parameter written in 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

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.

8.3.3.3.3 Void~~EF_{BCCH} (Broadcast Control Channels)~~

~~File size: 16 Bytes~~

~~Default values (BIN): Bytes 1-2: 11111111 11111111~~

~~Bytes 3-4: 11111111 11111111~~

~~Bytes 5-6: 11111111 11111111~~

~~Bytes 7-8: 11111111 11111111~~

~~Bytes 9-10: 11111111 11111111~~

~~Bytes 11-12: 11111111 11111111~~

~~Bytes 13-14: 11111111 11111111~~

~~Bytes 15-16: 11111111 11111111~~

~~This field may be updated dependent on the UE implementation.~~

8.3.3.3.4 EF_{CPBCCH} (CPBCCH Information)

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

8.3.3.3.5 $EF_{InvScan}$ (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} (Extended Capability Configuration Parameter~~s~~)

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)

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

8.3.5.1.2 Image Instance Data Files

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

~~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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Copenhagen, Denmark, 8-9 February, 2001

Tdoc T1-010081

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

Tdoc T1S010013

CR-Form-v3

CHANGE REQUEST

⌘ **34.108** **CR** **035** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

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

Title:	⌘	Correction of clause number in TS 34.108.
Source:	⌘	Ericsson
Work item code:	⌘	***Date:*** ⌘ 22 Jan 2001
Category:	⌘ **D**	***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:	⌘	Error in clause numbering
Summary of change:	⌘	Reference in clause 6.10.2.4.1.50 corrected; 6.10.2.4.22 changed to 6.10.2.4.2.2
Consequences if not approved:	⌘	

Clauses affected:	⌘	6.10.2.4.1.50, 6.10.2.4.2.2		
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 ⌘ 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.

<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 DL: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. ~~5.~~4.1.13.1.1.1

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

See 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 Uplink	Min spreading factor	8
	Max number of DPDCH data bits/radio frame	4800
	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 Downlink	DTX position		Flexible
	Spreading factor		16
	DPCCH	Number of TFCI bits/slot	8
		Number of TPC bits/slot	8
		Number of Pilot bits/slot	16
	DPDCH	Number of data bits/slot	288
		Number of data bits/frame	4320

<End of modified section>

<Start of modified section>

6.10.2.4.2.26.10.2.4.22 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

6.10.2.4.2.2.2.1.3 TFCS

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

6.10.2.4.2.2.2.2 Physical channel parameters

PDSCH	RAB or SRB, TrCh		**Interactive or background / 384 kbps / PS RAB, DSCH**
	DTX position		N/A (SingleTrCH)
	Spreading factor		8
DPCH Downlink associated with PDSCH	RAB or SRB, TrCh		**3.4 kbps SRB for DCCH, DCH**
	DTX position		N/A (SingleTrCH)
	Minimum spreading factor		256
	DPCCH	Number of TFCI bits/slot	0
		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 Meeting #10
Copenhagen, Denmark, 8-9 February, 2001

Tdoc T1-010082

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

Tdoc T1S-010018r1

CR-Form-v3

CHANGE REQUEST

⌘ **34.108** **CR** **036** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

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

Title:	⌘	Update of autentication test algorithm.
Source:	⌘	Ericsson
Work item code:	⌘	***Date:*** ⌘ 6 Feb 2001
Category:	⌘ **C**	***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 be able to test UE behaviour for UE authentication reject and re-synchronisation scenarios the authentication test algorithm, that is to be implemented in test USIM, need to be further detailed.
Summary of change:	⌘	Added references to referenced 31 and 33 series specifications. Split autentication test algorithm between normal case (authentication and key agreement procedure) and the USIM re-synchronisation procedure case. Introduction of definition of the test algorithm functions f1, f2, f3, f4, f5 and the corresponding functions for re-synchronization f1* and f5*. Add new section describing how the tes algorithm is used for testing of UE authentication behaviour.
Consequences if not approved:	⌘	Not possible to test UE authentication reject nor authentication re-synchronisation scenarios.

Clauses affected:	⌘	2, 8.1.2 and 8.2		
Other specs affected:	⌘	[ ] Other core specifications [ ] Test specifications [ ] O&M Specifications	⌘	
Other comments:	⌘			

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

<Start of modified section>

2 References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TS 34.123-1: "Mobile Station (MS) conformance specification; Part 1: Protocol 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".

[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".

[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

[19] 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 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>

8. Test USIM Parameters

8.1 Introduction

This clause defines default parameters for programming the elementary files of the test USIM. The requirements of this clause do not apply to the USIM/ME tests of 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 re-synchronisation 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~~i~~** (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~~i~~**[bits 0,1, . . .126,127] XOR **RAND**[bits 0,1, . . .126,127]

Step 2:

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

~~X~~**RES**[bits 0,1, . . .n-1,n] = **f2(XDOUT**,n) = **XDOUT**[bits 0,1, . . .n-1,n] (with 30 < n < 128)

NOTE: Suggested length for RES is 128 bits (i.e. n = 127).
In SS and AUC, the XRES calculation is identical to RES.

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

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

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

Step 3:

Concatenate **SQN** with **AMF** to obtain **CDOUT** like this:

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

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

Step 4:

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

XMAC[bits 0,1, . . .62, 63] = **f1(XDOUT, CDOUT)** = ~~**MACS**[bits 0,1, . . .62, 63] =~~ **XDOUT**[bits 0,1. . .62,63] XOR **CDOUT**[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** ⊕ **AK**[bits 0,1,. . .46,47] || **AMF**[bits 0,1,. . .14,15] || **MAC**[bits 0,1, . . .62, 63]

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

8.1.2.2 Generation of re-synchronisation parameters in the USIM

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

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

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

When the test USIM starts the re-synchronisation procedure, the MAC-S and AK have to be calculated using the functions f1* and f5*, which in the test algorithm are ~~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 $\mathbf{SQN_{MS}}$ with **AMF*** to obtain **CDOUT** like this:

CDOUT[bits 0,1,. . .62,63] = $\mathbf{SQN_{MS}}$[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 $\mathbf{SQN_{MS}}$ = $\mathbf{SQN_{SS}}$[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 $\mathbf{SQN_{MS}}$ = **AUTS**[bits 0,1,. . .46,47] XOR **AK**[bits 0,1, . . . 46,47] where AUTS is the received re-synchronisation parameter.

Step 4:

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

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

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

Step 5:

The test USIM calculates the re-synchronisation parameter **AUTS**:

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

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

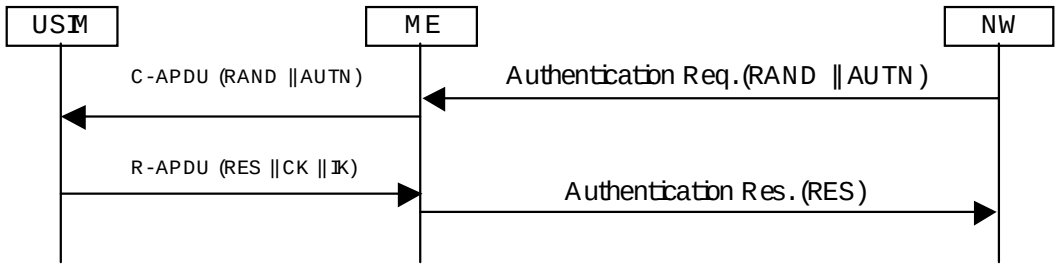

Figure 8.1.2.3.1: Network accepted by UE

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”).

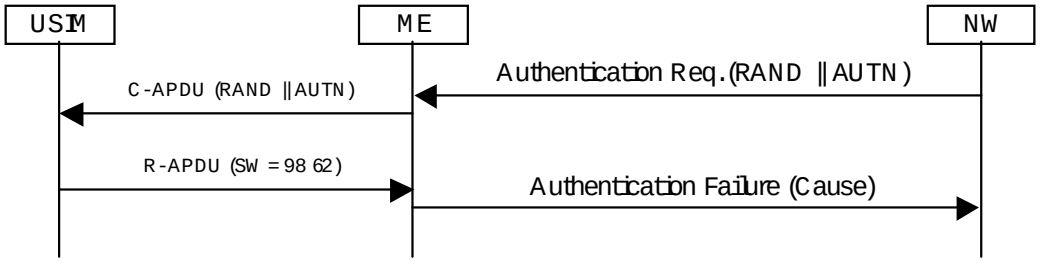

Figure 8.1.2.3.2: MAC failure cases

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.

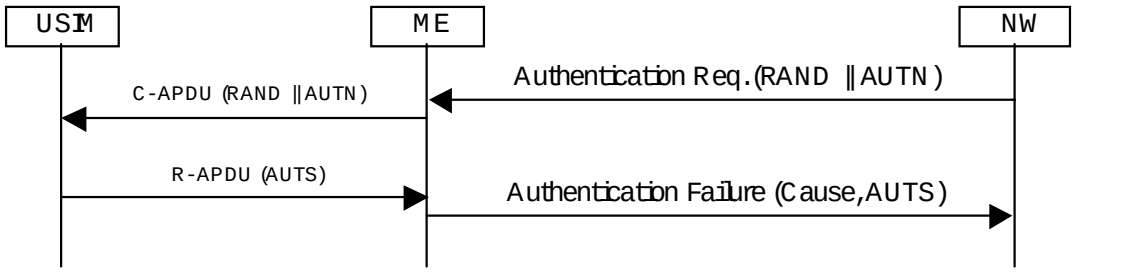

Figure 8.1.2.3.3: SQN failure case

8.2 Default Parameters for the test USIM

Ki:

The authentication key "Ki" will be chosen by the test house and will be non zero. The "Ki" 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 ***Tdoc T1-010084***
Copenhagen, Denmark, 8-9 February, 2001

3GPP TSG-T1/SIG Meeting #15 ***T1S-010020***
Copenhagen, Denmark, 5-7 February 2001

CR-Form-v3

CHANGE REQUEST

⌘ **34.108** **CR** **037** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

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

Title:	⌘	Updates to clause 9 of TS 34.108 v3.2.0
Source:	⌘	Matsushita Communication Industries
Work item code:	⌘	***Date:*** ⌘ 5 February 2001
Category:	⌘ **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 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 change: ⌘ 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. <u>Other changes</u> • 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:	⌘	6.1, 9		
Other specs affected:	⌘	[ ] Other core specifications [X] Test specifications [ ] O&M Specifications	⌘	TS 34.123-1 version 3.2.0
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

- 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 Code~~s(3 digit)~~ ~~According to the contents of~~ stored in the test USIM card.
- MNC digit	Set to the same Mobile Network Code~~s(2-3 digit)~~ ~~According to the contents of~~ stored in the test USIM card.
- ANSI-41 Core Network information	Not Present
~~- P_REV(Protocol revision level)~~	
~~- 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	
- Cell Value tag	1
- Scheduling	
- SEG_COUNT	2
- SIB_REP	16
- SIB_POS	2
- SIB_POS offset info	
- SIB_OFF	2
- SIB type	Scheduling Block 1
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	10
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 1
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	128
- SIB_POS	14
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 2
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	6
- 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	1
- SEG_COUNT	1
- SIB_REP	64
- SIB_POS	38
- 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	Not Present
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	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	
- 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	
- SIB type	Type5
- 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	Type6
- 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	Type7
- 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	Type8
- 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	Type9
- 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	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	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	

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

Contents of Scheduling Block 1

- References to other system information blocks	
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	128
- SIB_POS	26
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 5
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	3
- SIB_REP	128
- SIB_POS	42
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB type SIBs only	System Information Type 6
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	1
- SIB_REP	128
- SIB_POS	22
- SIB_POS offset info	Not Present – use default
- SIB type SIBs only	System Information Type 7
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	58
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 11
- Scheduling information	
- CHOICE Value tag	Cell Value tag
- Cell Value tag	1
- SEG_COUNT	2
- SIB_REP	128
- SIB_POS	106
- SIB_POS offset info	
- SIB_OFF	2
- SIB type SIBs only	System Information Type 12
- Scheduling information	
- CHOICE Value tag	PLMN Value tag
- PLMN Value tag	1
- SEG_COUNT	6
- SIB_REP	128
- SIB_POS	74
- SIB_POS offset info	
- SIB_OFF	2
- SIB_OFF	2
- SIB_OFF	8
- SIB_OFF	4
- SIB_OFF	2
- SIB type SIBs only	System Information Type 16

Contents of System Information Block type1 (supported PLMN type is ~~the case of~~ GSM-MAP)	
- CN common GSM-MAP NAS system information	
-- 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
- CN domain system information	
- 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 coefficient	7
- CN domain identity	CS
- 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 coefficient	7
~~- 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
- UE Timers and constants in connected mode	
- T301	2000 milliseconds
- N301	2
- T302	4000 milliseconds
- N302	3
- T304	1000 milliseconds
- N304	3
- T305	60 minutes
- T307	50 seconds
- T308	320 milliseconds
- T309	8 seconds
- T310	320 milliseconds
- N310	5
- T311	500 milliseconds
- T312	5 seconds
- N312	200
- T313	10 seconds
- N313	20
- T314	20 seconds
- T315	30 seconds
- N315	200

- T316 - T317	50 seconds 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~~	
~~- 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

~~- 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	
- Mapping info	
- Mapping List	
- RAT	UTRA FDD
- Mapping Function Parameter List	1
- Function type	Linear ~~(0)~~
- Map_parameter_1	1
- Map_parameter_2	1
- Upper_limit	1
- Cell selection_and_reselection_quality_-measure	CPICH Ec/N0
- CHOICE mode	FDD
- $S_{intrasearch}$	16 dB
- $S_{intersearch}$	16 dB
- $S_{searchHCS}$	10 dB
- RAT List	~~Not Present~~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	GSM
- $S_{search,RAT}$	-105 dB
- $S_{HCS,RAT}$	Not Present
- $S_{limit,SearchRAT}$	Not Present
- Q_{hyst1s}	0 dB
- Qhyst2s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	
- HCS_PRIO	0
- Q_{HCS}	0
- TCR_{MAX}	Not used
- NCR	Not Present
- $TCMAXH_{yst}$	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	Not barred
- Access Class Barred15	Not barred

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 0000 0001B
- Cell selection and re-selection info	
- Mapping Info	
- Mapping List	
- RAT	UTRA FDD
- Mapping Function Parameter List	~~Not Present~~
- Function type	Linear
- Map_parameter_1	1
- Map_parameter_2	1
- Upper_limit	1
- Cell_selection_and_reselection_quality_measure	CPICH Ec/N0
- 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 present with the following values.
- RAT identifier	~~Not Present~~GSM
- Ssearch,RAT	-105 dB
- SHCS,RAT	Not Present
- $S_{limit,SheachRAT}$	Not Present
- Q_{hyst1_S}	0 dB
- Q_{hyst2_S}	0 dB
- Treselections	0 seconds
- HCS Serving cell information	
- HCS_PRIO	0
- QHCS	0
- TCR_{MAX}	Not used ~~(not used, 30, 60, 120, 180, 240)~~
- NCR	Not Present
- $TCMAXH_{yst}$	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 type5

~~- References to other system information blocks~~	~~Not Present~~
- SIB6 indicator	TRUE
- PICH Power offset	~~0~~ -5 dB
- CHOICE Mode	FDD
- AICH Power offset	0dB
- Primary CCPCH info	
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	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	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- 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
- Number of TB and TTI List	Reference to clause 6.10 Parameter Set
- Number of Transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- 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	(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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
- PRACH partitioning	
- Access Service Class	
- ASC Settings	
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- ~~Available~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	'1111'B~~0 (ASC#0)~~
~~- Available sub-channel End Index~~	~~11 (ASC#0)~~
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- ~~Available~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	'1111'B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~0 (ASC#2)~~
~~- Available sub-channel End Index~~	~~9 (ASC#2)~~
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- ~~Available~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~0 (ASC#4)~~
~~- 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 Index~~Number	‘1111’B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~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)
- 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
- 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	~~1~~ Not Present
- 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	0
- 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 combinations of CTFC from clause 6.10.
- CTFC information	Refer to clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- Transport Channel Identity	12 (for PCH)
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
~~- Number of Transport blocks~~	~~Reference to clause 6.10 Parameter Set~~
- RLC Size	Reference to clause 6.10 Parameter Set
- Number of TB and TTI List	Reference to clause 6.10 Parameter Set
- Number of Transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- 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
- Transport Channel Identity	13~~2~~ (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- 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
- Number of TB and TTI List	Reference to clause 6.10 Parameter Set
- Number of Transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- 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
- CTCH indicator	FALSE
- PICH info	
~~- Secondary scrambling code~~	~~2~~
- Channelisation code	SF-1(SF is reference to clause 6.10 Parameter Set)
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

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

~~- References to other system information blocks~~	~~Not Present~~
- PICH power offset	~~0~~-5 dB
- CHOICE Mode	FDD
- AICH power offset	0 dB
- CSICH Power offset	Not Present
- Primary CCPCH info	
- TX Diversity indicator	FALSE
- PRACH system information list	
- PRACH system information	
- PRACH info	
- CHOICE mode	FDD
- Available Signature	'0000 0000 1111 1111'B
- Available SF	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	15
- RACH TFS	
- CHOICE Transport channel type	Common transport channels
- 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
- Number of TB and TTI List	Reference to clause 6.10 Parameter Set
- Number of Transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- 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	(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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
- PRACH partitioning	
- Access Service Class	
- ASC Settings	
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- ~~Available~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	'1111'B~~0 (ASC#0)~~
~~- Available sub-channel End Index~~	~~11 (ASC#0)~~
- Available signature Start Index	0 (ASC#1)
- Available signature End Index	7 (ASC#1)
- ~~Available~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	'1111'B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~0 (ASC#2)~~
~~- Available sub-channel End Index~~	~~9 (ASC#2)~~
- Available signature Start Index	0 (ASC#3)
- Available signature End Index	7 (ASC#3)
- ~~Available~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~0 (ASC#4)~~
~~- 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 Index~~Number	‘1111’B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~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~~ Assigned ~~s~~Sub-channel ~~Start Index~~Number	‘1111’B~~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)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping ~~table~~	Not Present
~~- AC-to-ASC mapping~~	
~~- AC-to-ASC mapping~~	
~~- AC-to-ASC mapping~~	
~~- AC-to-ASC mapping~~	
~~- AC-to-ASC mapping~~	
~~- AC-to-ASC mapping~~	
~~- AC-to-ASC mapping~~	
- Primary CPICH 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
- 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	~~1~~ Not Present
- 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	0
- 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 combinations of CTFC from clause 6.10.
- CTFC information	Refer to clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- Transport Channel Identity	12 (for PCH)
- TFS	(PCH)
- CHOICE Transport channel type	Common transport channels
- Dynamic Transport format information	(This IE is repeated for TFI number.)
~~- Number of Transport blocks~~	~~Reference to clause 6.10 Parameter Set~~
- RLC Size	Reference to clause 6.10 Parameter Set
- Number of TB and TTI List	Reference to clause 6.10 Parameter Set
- Number of Transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- 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
- Transport Channel Identity	13~~2~~ (for FACH)
- TFS	(FACH)
- CHOICE Transport channel type	Common transport channels
- 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
- Number of TB and TTI List	Reference to clause 6.10 Parameter Set
- Number of Transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Mode	FDD
- CHOICE Logical Channel List	ALL
- 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
- CTCH indicator	FALSE
- PICH info	
~~- Secondary scrambling code~~	~~2~~
- Channelisation code	SF-1(SF is reference to clause 6.10 Parameter Set)
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	Not Present

Contents of System Information Block type7

CHOICE Mode	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)~~
- 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

~~- References to other system information blocks~~	~~Not Present~~
- SIB12 indicator	TRUE
- 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_-measure	CPICH Ec/N0
- Intra-frequency measurement system information	
- Intra-frequency measurement identity ~~number~~	0
- Intra-frequency cell info list	
- CHOICE ~~Removed~~ intra-frequency cell~~s~~ removal	~~Not Present~~Remove no 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
- 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	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	
- 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 reporting indicator	No report

- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- CFN-SFN observed time difference	TRUE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- CFN-SFN observed time difference	FALSE
- Reporting quantities for detected set cells	Not Present
- 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	1a
- Triggering condition(mandatory in case of 1a,1b,1e,1f)	monitored set cells
- Reporting Range(optional in case of 1a,1b)	5dB
- cells forbidden to affect reporting range(optional in case of 1a,1b)	Not Present
- Primary CPICH info	
- Primary scrambling code	
- W(optional in case of 1a,1b)	1.0
- Hysteresis (mandatory in case of 1a,1b,1c,1d,1g,1h,1I,1j)	0.0
- Threshold used frequency (in case of 1e,1f,1h,1i,1j)	T.B.D(-125..165)
- Reporting deactivation threshold(mandatory in case of 1a)	1
- Replacement activation threshold(mandatory in case of 1c)	Not Present(not applicable,1,2,3,4,5,6,7)
- Time to trigger	640(0,10,20,40,60,80,100,120,160,200,240,320,640,1280,2560,5000)
- Amount of reporting	Infinity(1,2,4,816,32,64,Infinity)
- Reporting interval	0(0,250,500,1000,2000,4000,8000,16000 milliseconds)
- Reporting cell status	
- CHOICE reporting cell	Report cell Wwithin active set and/or monitored cells on used frequency and within monitored cells on non-used frequency
- Maximum number of reported cells type 2	2
- Inter-frequency measurement system information	Not Present
- 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 - - 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 information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

~~- 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_-measure	CPICH Ec/N0
- Intra-frequency measurement system information	
- Intra-frequency measurement identity ~~number~~	0
- Intra-frequency cell info list	
- ~~Removed~~ CHOICE intra-frequency cell~~s~~ removal	~~Not Present~~Remove no 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
- $Qoffset2_{s,n}$	0 dB
- Maximum allowed UL TX power	33dBm
- HCS neighbouring cell information	Not Present
~~- HCS_PRIO~~	
~~- Q_{HCS}~~	
~~- HCS Cell Re-selection information~~	
~~- Penalty_time~~	
~~- Temporary_offsets~~	
~~- Temporary_offset1~~	
~~- Temporary_offset2~~	
~~- 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	
- 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 reporting indicator	No report

- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- CFN-SFN observed time difference	TRUE
- Reporting quantities for monitored set cells	
- SFN-SFN observed time difference reporting indicator	No report
- Cell identity reporting indicator	TRUE
- CHOICE mode	FDD
- CPICH Ec/N0 reporting indicator	FALSE
- CPICH RSCP reporting indicator	TRUE
- Pathloss reporting indicator	FALSE
- CFN-SFN observed time difference	FALSE
- Reporting quantities for detected set cells	Not Present
- 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	1a
- Triggering condition(mandatory in case of 1a,1b,1c,1f)	monitored set cells
- Reporting Range(optional in case of 1a,1b)	5dB
- cells forbidden to affect reporting range(optional in case of 1a,1b)	Not Present
- Primary CPICH info	
- Primary scrambling code	
- W(optional in case of 1a,1b)	1.0
- Hysteresis (mandatory in case of 1a,1b,1c,1d,1g,1h,1i,1j)	0.0
- Threshold used frequency (in case of 1e,1f,1h,1i,1j)	T.B.D(-125..165)
- Reporting deactivation threshold(mandatory in case of 1a)	1
- Replacement activation threshold(mandatory in case of 1c)	Not Present(not applicable,1,2,3,4,5,6,7)
- Time to trigger	0(0,10,20,40,60,80,100,120,160,200,240,320,640,1280,2560,5000)
- Amount of reporting	Infinity(1,2,4,816,32,64,Infinity)
- Reporting interval	0 (0,250,500,1000,2000,4000,8000,16000 milliseconds)
- Reporting cell status	
- CHOICE reporting cell	Report cell Within active set and/or monitored cells on used frequency and within monitored cells on non-used frequency
- Maximum number of reporting reported cells type 2	2
- Inter-frequency measurement system information	Not Present
- 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~~ ~~- 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 information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

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

Contents of System Information Block type 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 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 URA identity	0000 0000 0000 0000 0000 0000 0111B 0000 0000 0000 0100B

Default settings for cell No.7:

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference to clause 6.10 Parameter Set Minimum supported by the UE's power class. Reference to clause 6.10 Parameter Set 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 URA identity	0000 0000 0000 0000 0000 0000 1000B 0000 0000 0000 0100B

Default settings for cell No.8:

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference to clause 6.10 Parameter Set Minimum supported by the UE's power class. Reference to clause 6.10 Parameter Set 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		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	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	Max. RF Output of UE	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	0
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
Me~~q~~asured 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 (GSM-MAP)	Set to the same octet string as in the IMSI stored in the USIM card
BCCH modification info	Not Present

Contents of PAGING 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 (GSM-MAP)	Set to the same octet string as in the IMSI stored in the USIM card
BCCH modification info	Not Present

Contents of PAGING 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 (GSM-MAP)	Set to the same octet string as in the IMSI stored in the USIM card
BCCH modification info	Not Present

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

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-2. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- message authentication code	SS calculates the value of MAC-I for this message and writes to this IE.
- RRC message sequence number	SS provides the value of this IE, from its internal counter.
Integrity protection mode info	Not Present
- Integrity protection mode command	
- Downlink integrity protection activation info	
- RRC message sequence number	
- RRC message sequence number	
- Integrity protection algorithm	
- Integrity protection initialisation number	
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 one of the supported ciphering algorithms.
- Ciphering ~~A~~activation time for DPCH	(256+CFN-(CFN MOD 8 + 8))MOD 256
- Radio bearer downlink ciphering activation time info	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	~~NoDRX~~CELL_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	
URA identity	Not Present
Signalling RB information to setup	Not Present
~~- RB identity~~	
~~- CHOICE RLC info type~~	
~~- RLC info~~	
~~- CHOICE Uplink RLC mode~~	
~~- Transmission RLC discard~~	
~~- SDU discard mode~~	
~~- Timer_MRW~~	
~~- Timer discard~~	
~~- MaxMRW~~	
~~- Transmission window size~~	
~~- CHOICE Downlink RLC mode~~	
~~- 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~~	

~~- Logical channel max loss~~	
~~- 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	~~5~~10
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- 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	1
- Uplink transport channel type	DCH
- Transport channel identity	~~2~~1
- Logical channel identity	~~1~~7
- 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	~~2~~6
- Logical channel identity	~~1~~7
- RB information to setup	
- RB identity	~~6~~11
- PDCP info	Not Present
- CHOICE RLC info type	RLC info
- 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	1
- Uplink transport channel type	DCH
- Transport channel identity	~~3~~2
- Logical channel identity	~~1~~8
- 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	~~3~~7
- Logical channel identity	~~1~~8
- RB information to setup	(This IE is needed for 12.2 kbps and 10.2 kbps)
- RB identity	~~7~~12
- PDCP info	Not Present
- CHOICE RLC info type	RLC info

- 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	1
- Uplink transport channel type	DCH
- Transport channel identity	43
- Logical channel identity	19
- 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	48
- Logical channel identity	19
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	15
- 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	10
- Logical channel identity	1
RB information to be affected	(AM DCCH for RRC)
- RB identity	2
- RB mapping info	
- Information for each multiplexing option	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	15
- Logical channel identity	2
- CHOICE RLC size list	All
- MAC logical channel priority	2
- Logical channel max loss	0
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- Transport channel identity	10
- Logical channel identity	2
RB information to be affected	(AM DCCH for NAS_DT High priority)
- RB identity	3
- RB mapping info	
- Information for each multiplexing option	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	15
- 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	10
- Logical channel identity	3
RB information to be affected	(AM DCCH for NAS_DT Low priority)
- RB identity	4
- RB mapping info	
- Information for each multiplexing option	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	~~1~~5
- Logical channel identity	4
- CHOICE RLC size list	All
- MAC logical channel priority	4
~~- Logical channel max loss~~	~~0~~
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- Transport channel identity	10
- Logical channel identity	4
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	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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
Added or Reconfigured UL TrCH information	
- Transport channel identity	~~2~~1
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- 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
- Number of TBs and TTI List	Reference to clause 6.10 Parameter Set
- Transmission Time Interval	Not Present
- Number of transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Logical Channel List	All
- 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
Added or Reconfigured UL TrCH information	
- Transport channel identity	~~3~~2

- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- 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
- Number of TBs and TTI List	Reference to clause 6.10 Parameter Set
- Transmission Time Interval	Not Present
- Number of transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Logical Channel List	All
- 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
Added or Reconfigured UL TrCH information	(This IE is needed for 12.2 kbps and 10.2 kbps)
- Transport channel identity	~~4~~3
- TFS	(This IE is repeated for TFI number)
- CHOICE Transport channel type	Dedicated transport channels
- Dynamic Transport format information	
~~- Number of Transport blocks~~	~~Reference to clause 6.10 Parameter Set~~
- RLC size	Reference to clause 6.10 Parameter Set
- Number of TBs and TTI List	Reference to clause 6.10 Parameter Set
- Transmission Time Interval	Not Present
- Number of transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Logical Channel List	All
- 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
Added or Reconfigured UL TrCH information	If TrCH reconfiguration is executed then this is needed (e.g The rate of SRB for DCCH is changed.).
- Transport channel identity	~~1~~5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- 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
- Number of TBs and TTI List	Reference to clause 6.10 Parameter Set
- Transmission Time Interval	Not Present
- Number of transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Logical Channel List	All
- 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
DRAC static information	Not Present
~~- Transmission Time Validity~~	
~~- Time duration before retry~~	
~~- DRAC Class identity~~	
DL Transport channel information common for all transport channel	
- SCCPCH TFCS	Not Present
- CHOICE DL parameters	Independent
- DL 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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
Added or Reconfigured DL TrCH information	
- Transport channel identity	~~2~~6
- CHOICE DL parameters	SameAsUL
- UL TrCH Identity	~~2~~1
- DCH quality target	
- BLER Quality value	-6.3~~0.00~~
- Transparent mode signalling info	Not Present
Added or Reconfigured DL TrCH information	
- Transport channel identity	~~3~~7
- CHOICE DL parameters	SameAsUL
- UL TrCH ~~information~~identity	~~3~~2
Added or Reconfigured DL TrCH information	(This IE is needed for 12.2 kbps and 10.2 kbps)
- Transport channel identity	~~4~~8
- CHOICE DL parameters	SameAsUL
- UL TrCH ~~information~~identity	~~4~~3
- DCH quality target	
- BLER Quality value	-6.3~~0.00~~
- Transparent mode signalling info	Not Present
Added or Reconfigured DL TrCH information	If TrCH reconfiguration is executed then this is needed(e.g The rate of SRB for DCCH is changed.).
- Transport channel identity	~~1~~5
- CHOICE DL parameters	Independent
- UL TrCH Identity	10
- TFS	
- 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	
- 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
- DCH quality target	
- BLER Quality value	-6.3~~0.00~~
- Transparent mode signalling info	Not Present
Frequency info	
- UARFCN uplink(Nu)	Reference to clause 6.10 Parameter Set
- UARFCN downlink(Nd)	Reference to clause 6.10 Parameter Set
Maximum allowed UL TX power	33dBm
~~Uplink DPCH info~~CHOICE channel requirement	Uplink DPCH info
- Uplink DPCH power control info	
- DPCCH power offset	-6dB
- PC Preamble	15 slots
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	Not Present(1)
- spreading factor	SF is reference to clause 6.10 Parameter Set
- TFCI existence	TRUE
- Number of FBI bit	Not Present(0)

- Puncturing Limit	Reference to clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing 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	1
-TGPS Status Flag	Inactive
- Transmission gap pattern sequence configuration parameters	
- TGMP	FDD Measurement
- TGPRC	62
- TGCFN	(Current CFN + (256 – TTI/10msec)) mod 256
- TGSN	8
- 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	A
- DeltaSIR1	2.0
- DeltaSIRafter1	1.0
- DeltaSIR2	Not Present
- DeltaSIRafter2	Not Present
- 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	
- DL channelisation code	
- Secondary scrambling code	1

- Spreading factor	Reference to clause 6.10 Parameter Set
- Code number	SF-1(SF is reference to clause 6.10 Parameter Set)
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	-a
- Closed loop timing adjustment mode	Not Present
- Secondary CCPCH info	Not Present
- 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	Not Present
- FACH/PCH information	Not Present
- 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	Not Present
- Scheduling information	

Contents of RADIO BEARER SETUP COMPLETE message: AM

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

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

Information Element	Value/remark
Message Type	
RRC transaction identifier	Arbitrarily selects an integer between 0 and 3
Integrity check info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. 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 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	
- 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	~~NoDRX~~CELL_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	
- 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	~~1~~5
- 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	10

- Logical channel identity	1
RB information to be affected	(AM DCCH for RRC)
- RB identity	2
- RB mapping info	
- Information for each multiplexing option	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	~~1~~5
- Logical channel identity	2
- CHOICE RLC size list	All
- MAC logical channel priority	2
~~- Logical channel max loss~~	~~0~~
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- Transport channel identity	10
- Logical channel identity	2
RB information to be affected	(AM DCCH for NAS_DT High priority)
- RB identity	3
- RB mapping info	
- Information for each multiplexing option	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	~~1~~5
- 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	10
- Logical channel identity	3
RB information to be affected	(AM DCCH for NAS_DT Low priority)
- RB identity	4
- RB mapping info	
- Information for each multiplexing option	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	~~1~~5
- Logical channel identity	4
- CHOICE RLC size list	All
- MAC logical channel priority	4
~~- Logical channel max loss~~	~~0~~
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- Transport channel identity	10
- Logical channel identity	4
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	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 Factors
- Gain factor ßc	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
Deleted UL TrCH Information	
- Transport channel identity	~~2~~1
Deleted UL TrCH Information	
- Transport channel identity	~~3~~2
Deleted UL TrCH Information	
- Transport channel identity	~~4~~3
Added or Reconfigured UL TrCH information	If TrCH reconfiguration is executed then this is needed (e.g The rate of SRB for DCCH is changed.).
- Transport channel identity	~~1~~4
- TFS	
- CHOICE Transport channel type	Dedicated transport channel
- 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
- Number of TBs and TTI List	Reference to clause 6.10 Parameter Set
- Transmission Time Interval	Not Present
- Number of transport blocks	Reference to clause 6.10 Parameter Set
- CHOICE Logical Channel List	All
- 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
CPCH set ID	Not Present
DRAC static information	Not Preaent
- Transmission Time Validity	
- Time duration before retry	
- DRAC Class Identity	
DL Transport channel information common for all transport channel	
- SCCPCH TFCS	Not Present
- CHOICE DL parameters	Independent
- DL 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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
Deleted DL TrCH Information	
- Transport channel identity	~~2~~6
Deleted DL TrCH Information	
- Transport channel identity	~~3~~7
Deleted DL TrCH Information	
- Transport channel identity	~~4~~8

Added or Reconfigured DL TrCH information	If TrCH reconfiguration is executed then this is needed(e.g The rate of SRB for DCCH is changed.).
- Transport channel identity	10
- CHOICE DL parameters	SameAsUL
- UL TrCH Identity	~~1~~5
- DCH quality target	
- BLER Quality value	-6.3~~0.00~~
- Transparent mode signalling info	Not Present
Frequency info	
- UARFCN uplink(Nu)	Reference to clause 6.10 Parameter Set
- UARFCN downlink(Nd)	Reference to clause 6.10 Parameter Set
Maximum allowed UL TX power	33dBm
Uplink DPCH info	
- Uplink DPCH power control info	
- DPCCH power offset	-6dB
- PC Preamble	15 slots
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	Not Present(1)
- spreading factor	SF is reference to clause 6.10 Parameter Set
- TFCI existence	TRUE
- Number of FBI bit	Not Present(0)
- Puncturing Limit	Reference to clause 6.10 Parameter Set
CHOICE Mode	FDD
- Downlink PDSCH information	Not Present
Downlink information common for all radio links	
- Downlink DPCH info common for all RL	
- Timing 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	N/A
- TFCI existence	FALSE
- Number of bits for Pilot bits(SF=128,256)	Reference to clause 6.10 Parameter Set
- DPCH compressed mode info	
-TGPSI	1
-TGPS Status Flag	Inactive
- Transmission gap pattern sequence configuration parameters	
- TGMP	FDD Measurement
- TGPRC	62
- TGCFN	(Current CFN + (256 – TTI/10msec)) mod 256
- TGSN	8
- 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	A
- DeltaSIR1	2.0
- DeltaSIRafter1	1.0
- DeltaSIR2	Not Present

- DeltaSIRafter2	Not Present
- 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	
- DL channelisation code	
- Secondary scrambling code	1
- Spreading factor	Reference to clause 6.10 Parameter Set
- Code number	SF-1(SF is reference to clause 6.10 Parameter Set)
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	-a
- Closed loop timing adjustment mode	Not Present
- Secondary CCPCH info	Not Present
- 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	Not Present
- FACH/PCH information	Not Present
- 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	 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	FDD
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 identity~~U-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, this is absent.
- SRNC identity	0000 0000 0001B
- S-RNTI	0000 0000 0000 0000 0001B
RRC transaction identifier	0
Integrity check info	The presence of this IE depends on 2 factors: (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

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

Information Element	Value/remark
Message Type	
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	
- 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	1
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	UM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4
- CHOICE Downlink RLC mode	UM RLC
- RB mapping info	
- Information for each multiplexing option	
- Number of RLC logical channels	1
- Uplink transport channel type	DCH
- Transport channel identity	~~1~~5
- 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	10
- Logical channel identity	1
Signalling RB information to setup	(AM DCCH for RRC)
- RB identity	2
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	8
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- 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	
- 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	~~1~~5
- Logical channel identity	2
- CHOICE RLC size list	All
- MAC logical channel priority	2
~~- Logical channel max loss~~	~~0~~
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- Transport channel identity	10
- Logical channel identity	2
Signalling RB information to setup	(AM DCCH for NAS_DT High priority)
- RB identity	3
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	8
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_SDU	1
- Last transmission 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	1
- Uplink transport channel type	DCH
- Transport channel identity	~~1~~5
- 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	10
- Logical channel identity	3
Signalling RB information to setup	(AM DCCH for NAS_DT Low priority)

- RB identity	4
- CHOICE RLC info type	
- RLC info	
- CHOICE Uplink RLC mode	AM RLC
- Transmission RLC discard	
- SDU discard mode	Max DAT retransmissions
- MAX_DAT	4
- Timer_MRW	100
- MaxMRW	4
- Transmission window size	8
- Timer_RST	500
- Max_RST	4
- Polling info	
- Timer_poll_prohibit	200
- Timer_poll	200
- Poll_SDU	1
- Last transmission 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	1
- Uplink transport channel type	DCH
- Transport channel identity	~~15~~
- Logical channel identity	4
- CHOICE RLC size list	All
- MAC logical channel priority	4
~~- Logical channel max loss~~	~~0~~
- Downlink RLC logical channel info	
- Number of RLC logical channels	1
- Downlink transport channel type	DCH
- Transport channel identity	10
- Logical channel identity	4
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	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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB

Added or Reconfigured UL TrCH information	
- Transport channel identity	~~1~~5
- TFS	
- CHOICE Transport channel type	Dedicated transport channels
- 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
- Number of TBs and TTI lists	(This IE is repeated for TFI number)
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical channel list	
- Explicit List	Reference to TS34.108 clause 6.10 Parameter Set
- RB identity	Reference to TS34.108 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
DL Transport channel information common for all transport channel	
- SCCPCH TFCS	Not Present
- CHOICE DL parameters	Independent
- DL 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	Refer to clause 6.10 Parameter Set
- Power offset information	
- CHOICE Gain Factor	Signalled Gain Factor
- Gain factor ßc	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
Added or Reconfigured DL TrCH information	
- Transport channel identity	~~1~~0
- CHOICE DL parameters	SameAs~~D~~UL
- UL TrCH Identity	~~1~~5
- DCH quality target	
- BLER Quality value	-6.3~~0.00~~
- Transparent mode signalling info	Not Present
Frequency info	
- UARFCN uplink(Nu)	Reference to clause 6.10 Parameter Set
- UARFCN downlink(Nd)	Reference to clause 6.10 Parameter Set
Maximum allowed UL TX power	33dBm
Uplink DPCH info	
- Uplink DPCH power control info	
- DPCCH power offset	-6dB
- PC Preamble	15 slots
- Power Control Algorithm	Algorithm1
- TPC step size	1dB
- Scrambling code type	Long
- Scrambling code number	0 (0 to 16777215)
- Number of DPDCH	Not Present(1)
spreading factor	SF is reference to clause 6.10 Parameter Set
- TFCI existence	TRUE

- Number of FBI bit	Not Present(0)
- Puncturing Limit	Reference to clause 6.10 Parameter Set
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	Flexible
- TFCI existence	TRUE
- Number of bits for Pilot bits(SF=128,256)	Not Present
- DPCH compressed mode info	
-TGPSI	1
-TGPS Status Flag	Inactive
- Transmission gap pattern sequence configuration parameters	
- TGCFN	(Current CFN + (256 – TTI/10msec)) mod 256
- TGMP	FDD Measurement
- TGPRC	62
~~- TGCFN~~	~~(Current CFN + (256 – TTI/10msec)) mod 256~~
- TGSN	8
- 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	A
- DeltaSIR1	2.0
- DeltaSIRafter1	1.0
- DeltaSIR2	Not Present
- DeltaSIRafter2	Not Present
- 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	
- DL channelisation code	
- Secondary scrambling code	1

- Spreading factor	Reference to clause 6.10 Parameter Set
- Code number	SF-1(SF is reference to clause 6.10 Parameter Set)
- Scrambling code change	No change
- TPC combination index	0
- SSDT Cell Identity	-a
- Closed loop timing adjustment mode	Not Present
- Secondary CCPCH info	Not Present
- 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	Not Present
- FACH/PCH information	Not Present
- TFS	
- Dynamic Transport format information	
~~- Number of Transport blocks~~	
- RLC Size	
- Number of TBs and TTI lists	(This IE is repeated for TFI number)
- Transmission Time Interval	Reference to TS34.108 clause 6.10 Parameter Set
- Number of Transport blocks	Reference to TS34.108 clause 6.10 Parameter Set
- CHOICE Logical channel list	
- Explicit List	Reference to TS34.108 clause 6.10 Parameter Set
- RB identity	Reference to TS34.108 clause 6.10 Parameter Set
- 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	Not Present
- Scheduling information	

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	
- 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	0000000000000010B (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.
- Ciphering ~~A~~activation time for DPCH	Not Present
- Radio bearer downlink ciphering activation time info	
- Radio bearer activation time	
- RB identity	1
- RLC sequence number	Current RLC SN+2
- RB identity	2
- RLC sequence number	Current RLC SN+2
- RB identity	3
- RLC sequence number	Current RLC SN + 2
- RB identity	4
- RLC sequence number	Current RLC SN + 2
Integrity protection mode info	The presence of this IE is dependent on IXIT statements in TS 34.123-32. If integrity protection is indicated to be active, this IE is present with the values of the sub IEs as stated below. Else, this IE and the sub-IEs are omitted.
- Integrity protection mode command	Start
- Downlink integrity protection activation info	Not Present
- Integrity protection algorithm	UIA1
- Integrity protection initialisation number	SS selects an arbitrary 32 bits number for FRESH
CN domain identity	Supported domain

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.~~
~~- RRC Message sequence number~~	~~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

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

Tdoc T1-010088

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

T1S-010027

CR-Form-v3

CHANGE REQUEST

⌘ **TS 34.108** **CR** **038** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

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

Title:	⌘	Updating to TDD single mode
Source:	⌘	Siemens AG
Work item code:	⌘	Conformance testing for UE (TDD)
Date:	⌘	5.Feb.2001
Category:	⌘	**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 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:	⌘	Some changes to include TDD single mode.
Summary of change:	⌘	References TDD technical specifications. TDD is in Release 99. Inner Loop Power Control in UL only FDD.
Consequences if not approved:	⌘	

Clauses affected:	⌘	References, Introduction, 6.6.2.2		
Other specs affected:	⌘	☐ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	
Other comments:	⌘			

References

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

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TS 34.123-1: "Mobile Station (MS) conformance specification; Part 1: Protocol conformance specification".

[2] 3GPP TS 34.121: " Terminal Conformance Specification; Radio transmission and reception (FDD)".

[3] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".

[4] 3GPP TS 34.124: "Electromagnetic compatibility (EMC) requirements for Mobile terminals and ancillary equipment".

[5] 3GPP TS 34.122: "Terminal Conformance Specification; Radio transmission and reception (TDD)".

[6] 3GPP TS 34.109: ~~"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

[19] 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 Meeting #10 ***Tdoc T1-010089***
Copenhagen, Denmark, 8-9 February, 2001

3GPP TSG-T1 SWG SIG Meeting #15 ***T1S-010028***
Copenhagen, Denmark, 5th-7th February 2001

CR-Form-v3

CHANGE REQUEST

⌘ **TS 34.108** **CR** **039** ⌘ rev **-** ⌘ Current version: **3.2.0** ⌘

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

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

Title:	⌘	Simulated network environments for TDD mode (SIB)
Source:	⌘	Siemens AG
Work item code:	⌘	Conformance testing for UE (TDD) ***Date:*** ⌘ 5.Feb.2001
Category:	⌘	**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 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:	⌘	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)
Consequences if not approved:	⌘	

Clauses affected:	⌘	Clause 6.1
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
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 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

- MIB value tag	1 (1 to 8)
- Supported PLMN types	
- PLMN type	GSM-MAP
- PLMN identity(GSM-MAP)	
- MCC digit	Mobile Country Code(3 digit) According to the contents of USIM.
- MNC digit	Mobile Network Code(2-3 digit) According to the contents of USIM.
- ANSI-41 Core Network information	Not Present
- P_REV(Protocol revision level)	
- 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	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	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	
- 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	
- SIB type	Type5
- 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	Type6
- 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	Type7
- 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	Type8
- 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	Type9
- 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	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	1 (1 to 4)
- SEG_COUNT	1 (1 to 16)
- SIB_REP	
- SIB_POS	
- SIB_OFF	
- SIB type	Type15
- 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	Type16
- PLMN Value tag	Not Present
- Cell Value tag	1 (1 to 4)
- 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

- 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) According to the contents of USIM.
- Location area code	0001H
- CN domain system information	
- 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 coefficient	7
- CN domain identity	CS
- 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 coefficient	7
- 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	
- 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	Not Present
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	
- RAT	UTRA FDD
- Mapping Function Parameter List	1
- Function type	Linear (0)
- Map_parameter_1	1
- Map_parameter_2	1
- Upper_limit	1
- Cell selection_and_reselection_quality_-measure	CPICH Ec/N0
- CHOICE mode	FDD
- $S_{intrasearch}$	16 dB
- $S_{intersearch}$	16 dB
- $S_{searchHCS}$	10 dB
- RAT List	Not Present
- RAT identifier	
- $S_{search,RAT}$	
- $S_{HCS,RAT}$	
- $S_{limit,ShearchRAT}$	Not Present
- Q_{hyst1s}	0 dB
- Qhyst2s	0 dB
- Treselections	0 seconds
- HCS Serving cell information	
- HCS_PRIO	0
- Q_{HCS}	0
- TCR_{MAX}	Not used
- NCR	Not Present
- $TCMAXH_{yst}$	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	Not barred
- Access Class Barred15	Not barred

Contents of System Information Block type3 (TDD)

- SIB4 Indicator	TRUE
- Cell identity	0000 0000 0000 0000 0000 0000 0001B
- Cell selection and re-selection info	
- Mapping info	
- RAT	UTRA TDD
- Mapping Function Parameter List	1
- Function type	Linear
- Map_parameter_1	1
- Map_parameter_2	1
- Upper_limit	1
- Cell selection and reselection quality - measure	Not present
- CHOICE mode	TDD
- Sintrasearch	10 dB
- Sintersearch	10 dB
- 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	
- $S_{search,RAT}$	
- $S_{HCS,RAT}$	Not present
- $S_{limit,SearchRAT}$	Not Present
- Q_{hyst1_S}	0 dB
- Treselections	0 seconds
- HCS Serving cell information	
- HCS_PRIO	0
- Q_{HCS}	0
- TCR_{MAX}	Not used
- NCR	Not Present
- $TCMAXH_{yst}$	Not Present
- Maximum allowed UL TX power	30dBm
- CHOICE mode	TDD
- Qrxlevmin	-103 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	Not barred
- Access Class Barred15	Not barred

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

- References to other system information blocks	Not Present
- Cell identity	0000 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	
- Cell_selection_and_reselection_quality_measure	CPICH Ec/N0
- CHOICE mode	FDD
- $S_{intrasearch}$	16 dB
- $S_{intersearch}$	16 dB
- $S_{searchHCS}$	10 dB
- RAT List	
- RAT identifier	Not Present
- $S_{search,RAT}$	
- $S_{HCS,RAT}$	
- $S_{limit,SearchRAT}$	Not Present
- Q_{hyst1s}	0 dB
- Q_{hyst2s}	0 dB
- Treselections	0 seconds
- HCS Serving cell information	
- HCS_PRIO	0
- Q_{HCS}	0
- TCR_{MAX}	Not used (not used, 30, 60, 120, 180, 240)
- NCR	Not Present
- $TCMAXH_{yst}$	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	1
- Upper_limit	1
- Cell_selection_and_reselection_quality_measure	Not present
- CHOICE mode	TDD
- Sintrasearch	10 dB
- Sintersearch	10 dB
- 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	
- $S_{search,RAT}$	
- $S_{HCS,RAT}$	
- $S_{limit,SearchRAT}$	Not Present
- Q_{hyst1_S}	0 dB
- Treselections	0 seconds
- HCS Serving cell information	
- HCS_PRIO	0
- Q_{HCS}	0
- TCR_{MAX}	Not used
- NCR	Not Present
- $TCMAXH_{yst}$	Not Present
- Maximum allowed UL TX power	30dBm
- CHOICE mode	TDD
- Qrxlevmin	-103 dBm
- 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

Contents of System Information Block type5 (FDD)

- References to other system information blocks	Not Present
- PICH Power offset	0dB
- AICH Power offset	0dB
- Primary CCPCH info	
- 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	
- 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	
- 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	(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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
- PRACH partitioning	
- Access Service Class	
- ASC Settings	
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Available sub-channel Start Index	0 (ASC#0)
- Available sub-channel End Index	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	0 (ASC#2)
- Available sub-channel End Index	9 (ASC#2)
- Available signature Start Index	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 Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- 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)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	
- AC-to-ASC mapping	6 (AC0-9)
- AC-to-ASC mapping	5 (AC10)
- AC-to-ASC mapping	4 (AC11)
- AC-to-ASC mapping	3 (AC12)
- AC-to-ASC mapping	2 (AC13)
- AC-to-ASC mapping	1 (AC14)
- AC-to-ASC mapping	0 (AC15)
- Primary CPICH DL TX power	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
- 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	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	0
- 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 combinations of CTFC from clause 6.10.
- CTFC information	Refer to clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- Transport Channel Identity	1 (for PCH)
- TFS	(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	
- 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
- Transport Channel Identity	2 (for FACH)
- TFS	(FACH)
- 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	
- 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
- CTCH indicator	FALSE
- PICH info	
- Secondary scrambling code	2
- Channelisation code	SF-1(SF is reference to clause 6.10 Parameter Set)
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	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	
- 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	
- 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	
- 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	(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	0
- Gain factor ßd	0
- Reference TFC ID	Not Present
- Power offset Pp-m	0dB
- PRACH partitioning	
- Access Service Class	
- ASC Settings	
- Available signature Start Index	0 (ASC#0)
- Available signature End Index	7 (ASC#0)
- Available sub-channel Start Index	0 (ASC#0)
- Available sub-channel End Index	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	0 (ASC#2)
- Available sub-channel End Index	9 (ASC#2)
- Available signature Start Index	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 Index	0 (ASC#5)
- Available signature End Index	7 (ASC#5)
- 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)
- Persistence scaling factor	0.9 (for ASC#3)
- Persistence scaling factor	0.9 (for ASC#4)
- Persistence scaling factor	0.9 (for ASC#5)
- Persistence scaling factor	0.9 (for ASC#6)
- Persistence scaling factor	0.9 (for ASC#7)
- AC-to-ASC mapping table	Not Present
- AC-to-ASC mapping	
- AC-to-ASC mapping	
- AC-to-ASC mapping	
- AC-to-ASC mapping	
- AC-to-ASC mapping	
- AC-to-ASC mapping	
- AC-to-ASC mapping	
- Primary CPICH 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
- 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	1
- 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	0
- 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 combinations of CTFC from clause 6.10.
- CTFC information	Refer to clause 6.10 Parameter Set
- Power offset information	Not Present
- FACH/PCH information	
- Transport Channel Identity	1 (for PCH)
- TFS	(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	
- 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
- Transport Channel Identity	2 (for FACH)
- TFS	(FACH)
- 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	
- 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
- CTCH indicator	FALSE
- PICH info	
- Secondary scrambling code	2
- Channelisation code	SF-1(SF is reference to clause 6.10 Parameter Set)
- Number of PI per frame	18
- STTD indicator	FALSE
- CBS DRX Level 1 information	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 - PRACHs listed in system information block type5 - Dynamic persistence level - PRACHs listed in system information block type6 - Dynamic persistence level	-100dBm(-110 to –70 dBm) 2 (1 to 8) 2 (1 to 8)

Contents of System Information Block type7 (TDD)

- PRACHs listed in system information block type5 - Dynamic persistence level - PRACHs listed in system information block type6 - Dynamic persistence level -Expiration Time Factor	 2 2 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	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_-measure	CPICH Ec/N0
- Intra-frequency measurement system information	
- Intra-frequency measurement identity number	0
- 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)
- 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	
- Q_{HCS}	
- HCS Cell Re-selection information	
- Penalty time	
- Temporary_offsets	
- Temporary_offset1	
- Temporary_offset2	
- 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	
- 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
- Cell identity	TRUE
- CPICH Ec/N0	FALSE
- CPICH RSCP	TRUE
- Pathloss	FALSE
- CFN-SFN observed time difference	TRUE
- Reporting quantities for monitored 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	FALSE
- Reporting quantities for detected set cells	Not Present
- 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	1a
- Triggering condition(mandatory in case of 1a,1b,1e,1f)	monitored set cells
- Reporting Range(optional in case of 1a,1b)	5dB
- cells forbidden to affect reporting range(optional in case of 1a,1b)	Not Present
- Primary CPICH info	
- Primary scrambling code	
- W(optional in case of 1a,1b)	1.0
- Hysteresis (mandatory in case of 1a,1b,1c,1d,1g,1h,1I,1j)	0.0
- Threshold used frequency (in case of 1e,1f,1h,1i,1j)	T.B.D(-125..165)
- Reporting deactivation threshold(mandatory in case of 1a)	1
- Replacement activation threshold(mandatory in case of 1c)	Not Present(not applicable,1,2,3,4,5,6,7)
- Time to trigger	640(0,10,20,40,60,80,100,120,160,200,240,320,640,1280,2560,5000)
- Amount of reporting	Infinity(1,2,4,816,32,64,Infinity)
- Reporting interval	0(0,250,500,1000,2000,4000,8000,16000 milliseconds)
- Reporting cell status	
- CHOICE reporting cell	Within monitored cells on used frequency and within monitored cells on non-used frequency
- Maximum number of reporting cells type 2	2
- Inter-frequency measurement system information	Not Present
- 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	

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

Contents of System Information Block type11 (TDD)

- SIB 12 Indicator	TRUE
- Measurement control system information	
- Use of HCS	Not used
- Cell_selection_and_reselection_quality_-measure	Not present
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	0
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	0
- Cell info	
- 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	30 dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	
- Qrxlevmin	
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH 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	
- 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 reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- 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 reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	
- Proposal TSGN reporting required	
- P-CCPCH RSCP reporting indicator	
- Pathloss reporting indicator	
- Reporting quantities for detected set cells	Not Present
- Intra-frequency measurement reporting criteria	

- parameters required for each event	
- 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)	1.0
- Hysteresis	0.0
- Threshold used frequency	T.B.D(-125..165)
- Reporting deactivation threshold	1
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	Infinity
- Reporting interval	0
- Reporting cell status	
- CHOICE reporting cell	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	2
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

Contents of System Information Block 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_-measure	CPICH Ec/N0
- Intra-frequency measurement system information	
- Intra-frequency measurement identity number	0
- 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)
- 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
- $Qoffset2_{s,n}$	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	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	
- 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
- Cell identity	TRUE
- CPICH Ec/N0	FALSE
- CPICH RSCP	TRUE
- Pathloss	FALSE
- CFN-SFN observed time difference	TRUE
- Reporting quantities for monitored 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	FALSE
- Reporting quantities for detected set cells	Not Present
- 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	1a
- Triggering condition(mandatory in case of 1a,1b,1e,1f)	monitored set cells
- Reporting Range(optional in case of 1a,1b)	5dB
- cells forbidden to affect reporting range(optional in case of 1a,1b)	Not Present
- Primary CPICH info	
- Primary scrambling code	
- W(optional in case of 1a,1b)	1.0
- Hysteresis (mandatory in case of 1a,1b,1c,1d,1g,1h,1I,1j)	0.0
- Threshold used frequency (in case of 1e,1f,1h,1i,1j)	T.B.D(-125..165)
- Reporting deactivation threshold(mandatory in case of 1a)	1
- Replacement activation threshold(mandatory in case of 1c)	Not Present(not applicable,1,2,3,4,5,6,7)
- Time to trigger	0(0,10,20,40,60,80,100,120,160,200,240,320,640,1280,2560,5000)
- Amount of reporting	Infinity(1,2,4,816,32,64,Infinity)
- Reporting interval	0 (0,250,500,1000,2000,4000,8000,16000 milliseconds)
- Reporting cell status	
- CHOICE reporting cell	Within monitored cells on used frequency and within monitored cells on non-used frequency
- Maximum number of reporting cells type 2	2
- Inter-frequency measurement system information	Not Present
- 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 - 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 information	Not Present
- UE internal measurement system information	Not Present

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

- Measurement control system information	
- Use of HCS	Not used
- Cell selection and reselection quality - measure	Not present
- Intra-frequency measurement system information	
- Intra-frequency measurement identity	0
- Intra-frequency cell info list	
- CHOICE intra-frequency cell removal	Remove no intra-frequency cells
- New intra-frequency cells	
- Intra-frequency cell id	0
- Cell info	
- 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	30 dBm
- HCS neighbouring cell information	Not Present
- CHOICE mode	
- Qrxlevmin	
- Intra-frequency measurement quantity	
- Filter coefficient	0
- Measurement list	
- Measurement quantity	P-CCPCH RSCP
- Intra-frequency reporting quantity for RACH 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	
- 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 reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- 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 reporting indicator	No report
- Cell synchronisation information reporting indicator	FALSE
- Cell identity reporting indicator	TRUE
- CHOICE mode	TDD
- Timeslot ISCP reporting indicator	
- Proposal TSGN reporting required	
- P-CCPCH RSCP reporting indicator	
- Pathloss reporting indicator	
- Reporting quantities for detected set cells	Not Present
- Intra-frequency measurement reporting criteria	
- parameters required for each event	
- 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)	1.0
- Hysteresis	0.0
- Threshold used frequency	T.B.D(-125..165)
- Reporting deactivation threshold	1
- Replacement activation threshold	Not Present
- Time to trigger	640
- Amount of reporting	Infinity
- Reporting interval	0
- Reporting cell status	
- CHOICE reporting cell	Report cell within active set and/or monitored cells on used frequency
- Maximum number of reported cells	2
- Inter-frequency measurement system information	Not Present
- Inter-RAT measurement system information	Not Present
- Traffic volume measurement system information	Not Present
- UE internal measurement system information	Not Present

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

Default settings for cell No.7:

Downlink input level Uplink output power PCCPCH/PCPICH carrier number Cell Channel Description - Primary CPICH info - Primary scrambling code	Reference to clause 6.10 Parameter Set Minimum supported by the UE's power class. Reference to clause 6.10 Parameter Set 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 URA identity	0000 0000 0000 0000 0000 0000 1000B 0000 0000 0000 0100B

Default settings for cell No.8:

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