TSGT#22(04)0162 page 1 of 1

Source: T1

Title: CR to TS 34.123-3 v.3.6.1 (prose part less Annex A) for approval

Agenda item: 5.1.3

Document for: Approval

This document contains the CR to prose part of TS 34.123-3 v.3.6.1, except the CR on Annex A, presented separately. This CR has been agreed by T1 and is put forward to TSG T for approval. The TTCN CRs are presented in other documents.

Doc-2nd- Level	Spec	CR	R e v	Phas e	Subject	Cat	Version- Current	Version- New	
T1-041407	34.123-3	359	-	R99	ASP updating and other corrections	F	3.6.1	3.7.0	

T1-041407(revT1-041010

3GPP TSG-T WG1 Meeting #24 Toronto, Canada, 26 – 30 July 2004

CHANGE REQUEST							CR-Form-v7	
	4.123-3 CR	359	≋rev	- #	ß Curr	ent versio	on: 3.6.1	#
For <u>HELP</u> on	sing this form, se	ee bottom of this	page or I	ook at	the pop	-up text o	ver the	mbols.
Proposed chang	affects: UICC	apps೫	ME	Radio	Access	s Network	Core No	etwork
Title:	ASP updating a	and other correc	tions					
Source:	MCC task 160							
Work item code:	TEI				1	Date: 🕱	24/06/2004	
Category:	B (addition of	n) nds to a correctior of feature), I modification of fe modification) ions of the above	n in an ear		Us	se <u>one</u> of th 2 (0 R96 (I R97 (I R98 (I R99 (I Rel-4 (I	R99 ne following rel GSM Phase 2) Release 1996) Release 1997) Release 1998) Release 1999) Release 4) Release 5)	
	De IOUIIU III SGPP	IN 21.300.				(Release 6)	

Reason for change: # 1. TC need the modification of UE UL power level

A number of P3 and P4 TCs testing UE internal measurement require the change of the UL Tx power during the test. Currently, the TTCN has no interface to address the SS DL DPCH transmitter power control command, in order to change the corresponding UE UL power level. The following TCs have such requirements.

P3 TC list: 8.4.1.27, 8.4.1.37, 8.4.1.38; P4 TC list: 8.4.1.41

It is proposed to use a new ASP's so as to finally bring the UE uplink transmission power to a desired level.

2. **ASP name G_CL2_Release_IND is confused** with CL2. The correct name should be G_L2_Release_IND. The ASP is triggered by the reception of the L2 DISC message on SAPI 0 (ref. 44.006, 8.4.4.2).

3 Introduction of G_CL2_Release_REQ

During normal layer 2 operation (ref. 44.006, clause 8.5.7), an entity transmitting a layer 3 message through an I frame will retransmit this message N200 times, or until it receives an acknowledgement of this message.

Certain layer 3 messages however request that the UE transfer to a new channel (e.g. Assignment Command or Handover Command). When the UE receives one of these commands it will immediately transfer to the new channel, without sending a layer 2 acknowledgement of this message to the old channel.

After the UE has successfully transferred to the new channel, a G_CL2_Release_REQ will be sent to the old channel, in order to stop it from repeatedly sending the transfer command. Without this ASP, the old channel will continue to re-transmit this message for N200 times and then send an error indication to the layer 3, indicating that the local end has been released.

4. Introduction of G CL2 MeasRptControl REQ

In GSM, Measurement Reports are transmitted constantly by the UE whenever it is assigned to a dedicated channel. By default, these are currently prevented by the SS from being reported to the TTCN at the start of every test. Although these messages are handled in the default behaviour test steps, they could potentially slow down the TTCN, even in test cases where they are not required. Several of the 60.* series test cases however require Measurement Reports to be received from the UE whilst assigned to a GSM channel.

The SS will enable the reporting of received Measurement Reports to the TTCN only when the ASP G_CL2_MeasRptControl_REQ is sent to the SS with sendMeasRpts set to TRUE.

5. Pre- & postambles for GERAN to UTRAN tests

A new annex is introduced in 34.123-1 for the pre- & postamble for UTRAN to GERAN test. The same need is valid to have a similar clause or annex on the pre- & postamble for GERAN to UTRAN test. The best place for these is in 34.123-3 for the TTCN implementation.

6. Enlarge the attenuation range frome 30db to 40db.

Several prioritised TCs, e.g. 8.2.6.37, 8.2.6.38, need an attenuation range of more than 30 db. The current range of 30db in the attenuation is not sufficient for the test. The SS manufacturers are in the position to extend this range to fulfil the test requirement.

- 7. Editorial correction for the enumerated type in ASN.1 from the uppercase to the lowercase for the 1st character.
- 8. Clarification of the meaning of the sequence number in ASP.
- 9. TTCN uses the fixed RB identifiers to facilitate the application of SS codecs. There is a need to have **a mapping table for RB idetifiers** between 34.123-1 and 34.123-3.
- 10. Several MMI strings for test USIM do not have a clear reference to the test case being performed. The reference needs to be added.
- 11. A **new pixit** should be added for the **frequency band** used for testing according to 34.108, 5.1.1.

Summary of change:

- # 1.New ASP CPHY_UL_PowerModify _CNF/REQ is introduced in 7.3.2.2.14a.
 - 2. Rename G_CL2_Release_IND to G_L2_Release_IND and move from clause 7.3.4.3.2.2 to clause 7.3.4.3.1.1 in 34.123-3.
 - 3. New ASP G_CL2_Release_REQ/CNF are added in 7.3.4.3.2.2.
 - 4. New ASP G_CL2_MeasRptControl_REQ/CNF are added in 7.3.4.3.2.2.
 - 5. A new clause Pre-& postambles for GERAN to UTRAN test is introduced in 8.12.
 - 6. Modify the attenuation range from 30 to 40 db in 7.3.2.2.5.
 - 7.1 Editorial change the uppercases to lowercases in a number of ASN.1 enumerated type definitions in 7.3.2.2.1, 7.3.2.2.13, 7.3.2.2.16, 7.3.2.2.17, 7.3.2.2.22a, 7.3.2.2.23, 7.3.2.2.29a, 7.3.2.2.30.
 - 7.2 Editorial correction in 7.3.2.2.8, 7.3.2.2.24, 8.5.4.5.
 - 8. Clarification of the meaning of the sequence number in ASP CRLC_RRC_MessageSN and CRLC_SequenceNumber in 7.3.2.2.27a, 7.3.2.2.29.
 - 9. An RB Id mapping table is inserted in 8.2.4.
 - 10. The test case reference is added in three MMI strings in annex F5.
 - 11. The px_FDD_OperationBand is added in annex B.1.1.

Consequences if not approved:

A number of prioritised TCs 8.4.1.27, 8.4.1.37, 8.4.1.38, 8.4.1.41 would not be testable. GSM L2 release could not be performed correctly or effectively at SS. Two P4 tests could not be made available for verification because of the attenuation setting.

	The SS performance might be slowed down because of the repeated treatment of the GSM measurement reports which do not belong to the test requirements.
Clauses affected:	# 7.3.2.2.1, 7.3.2.2.8, 7.3.2.2.13, 7.3.2.2.16, 7.3.2.2.17, 7.3.2.2.22a, 7.3.2.2.23, 7.3.2.2.24, 7.3.2.2.27a, 7.3.2.2.29, 7.3.2.2.14a, 7.3.4.3.1.1, 7.3.4.3.2.2, 8.2.4, 8.5.4.5, 8.12, F5
	YN
Other specs affected:	# Other core specifications # Test specifications O&M Specifications
Other comments:	x

7.3.2.2.1 CPHY_AICH_AckModeSet

	ASN.1 ASP Type Definition			
Type Name		CPHY_AICH_AckModeSet_REQ		
PCO Type		CSAP		
Comment		To request for setting of AICH Acknowledge Mode		
		Type Definition		
SEQUENCE	{ cellId routingI: ratType aICH_Mod	RatType,		

ASN.1 ASP Type Definition			
Type Name	CPHY_AICH_A	.ckModeSet_CNF	
PCO Type	CSAP	CSAP	
Comment	To confirm settir	To confirm setting of AICH Acknowledge Mode	
		Type Definition	
	ellId outingInfo	<pre>INTEGER(063), RoutingInfo</pre>	

	ASN.1 Type Definition					
Type Name	AICH_Mode					
Comment	Normal operation: The AICH will operate as normal, and will acknowledge or negatively acknowledge on all UE RACH transmission attempts, appropriately. No Acknowledge: The AICH shall not transmit acknowledge or Negative Acknowledge on all UE RACH transmission attempts. Negative Acknowledge: The AICH shall transmit Negative Acknowledge on all UE RACH transmission attempts					
	Type Definition					
ENUMERATED { Normalne	ormal (0),					
noAck negACK }	, , ,					

7.3.2.2.5 CPHY_Cell_TxPower_Modify

ASN.1 ASP Type Definition				
Type Name	CPHY_Cell_TxPower_Modify_CNF			
PCO Type	CSAP			
Comment	To confirm to change the DL power			
	Type Definition			
SEQUENCE { cellid }	INTEGER(063)			

ASN.1 ASP Type Definition				
Type Name	CPHY_Cell_TxPower_Modify_REQ			
PCO Type	CSAP			
Comment	To request to change the DL power If the Tx attenuation level value is set to 123, the cell becomes a non-suitable off cell (CPICH_Ec ≤ -122 dBm/3.84 MHz of an off cell).			
	Type Definition			
SEQUENCE {	INTEGER(063), nuationLevel INTEGER(0340,- 123)			

7.3.2.2.8 CPHY_PRACH_Measurement

	ASN.1 ASP Type Definition			
Type Na	ame	CPHY_PRACH_Measurement_CNF		
PCO Type		CSAP		
Comment		To Confirm PRACH Measurement Req		
		Type Definition		
SEQUENCE }	{ cellId routingI	<pre>INTEGER(063), nfo RoutingInfo</pre>		

	ASN.1 ASP Type Definition				
Type Name		CPHY_PRACH_Measurement_REQ			
PCO Type		CSAP			
Comment		To request for Start or Stop of PRACH Measurements to be done every PRACH			
		PREAMBLE or MESSAGE received.			
		Type Definition			
SEQUENCE }	{ cellId routingIn ratType pRACH_Mea	INTEGER(063), nfo RoutingInfo, RatType, asurementInd PRACH_MeasurementInd			

	ASN.1 Type Definition				
Type Name	PRACH_MeasurementInd				
Comment	StartMeas: The SS shall start the sending PRACH parameters Measurement report on CPHY PCO, for each PRACH Preamble or MESSAGE received from the UE by primitive CPHY_PRACH_Measurement_Report_IND on CPHY PCO. StopMeas: The SS shall stop sending of PRACH parameters Measurement report on CPHY PCO, for each PRACH Preamble or MESSAGE received from the UE by primitive CPHY_PRACH_Measurement_Report_IND on CPHY PCO.				
	Type Definition				
ENUMERATED {					
startMea	<u>s</u> (0),				
stop <u>Meas</u>	_(1)				

ASN.1 ASP Type Definition				
Type Name	Type Name CPHY_PRACH_Measurement_Report_IND			
PCO Type	CSAP			
Comment	SS indicates a PRACH parameters measurement report for each PRACH			
	Preambles or MESSAGE received from the UE			
	Type Definition			
SEQUENCE {				
cellId	<pre>INTEGER(063),</pre>			
routing	Info RoutingInfo,			
ratType	RatType,			
measure	mentReport PRACH_MeasurementReport			
}				

ASN.1 Type Definition					
Type N	Type Name PRACH_MeasurementReport				
Comn	Comment				
Type Definition					
SEQUENCE }		H_AcessSlot H_Signature	INTEGER (014), INTEGER (015) OPTIONAL		

7.3.2.2.13 CPHY_TrCH_Config

ASN.1 ASP Type Definition				
Type N	Type Name CPHY_TrCH_Config_CNF			
PCO T	PCO Type CSAP			
Comn	Comment To confirm to configure the transport channel			
	Type Definition			
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition			
Type I	Name	CPHY_TrCH_Config_REQ	
PCO '	PCO Type CSAP		
Comr	ment	To request to configure the transport channel	
Type Definition			
SEQUENCE	{ cellId routingIng ratType trchConfigMen	RatType, igType TrchConfigType,	

	ASN.1 Type Definition		
Type Name	CphyTrchConfigReq		
Comment	To request to configure the transport channel.		
	The same TFCS information should be provided to the PHY and MAC layers at all		
	times. When a CPHY_TrCH_Config_REQ is used to configure the PHY layer, a		
	corresponding CMAC_Config_REQ should be sent to the MAC layer to ensure		
	that the configuration is consistent.		
	Type Definition		
SEQUENCE {			
activationTi	_ ,		
ulconnectedT			
	trchid TransportChannelIdentity,		
_	ul_TransportChannelType		
transportChannelInfo CommonOrDedicatedTFS			
	} OPTIONAL,		
ulTFCS	TFCS OPTIONAL,		
dlconnectedT	rCHList SEQUENCE (SIZE (0maxTrCH)) OF SEQUENCE {		
trch	id TransportChannelIdentity,		
dl_T	ransportChannelType SS_DL_TransportChannelType,		
tran	sportChannelInfo CommonOrDedicatedTFS		
	} OPTIONAL,		
dlTFCS	TFCS OPTIONAL		
}			

ASN.1 Type Definition					
Ту	Type Name RoutingInfo				
С	omment	To route between	each channels.		
	Type Definition				
CHOICE { physicalChannelIdentity transportChannelIdentity logicalChannelIdentity rB_Identity cn-DomainIdentity		INTEGER TransportChannel: LogicalChannelIde INTEGER CN-DomainIdentity	entity, {-3132},		

ASN.1 Type Definition			
Type Na	ame	RatType	
Comm	Comment To select route between each channels.		
Type Definition			
ENUMERATED }	{ fdd (0),	tdd (1)	

ASN.1 Type Definition			
Type Name Com	monOrDedicatedTFS		
Comment Trans	sport Format Set		
	Type Definition		
SEQUENCE {			
tti	CHOICE {		
tti10	CommonOrDedicatedTF_InfoList,		
tti20	CommonOrDedicatedTF_InfoList,		
tti40	CommonOrDedicatedTF_InfoList,		
tti80	CommonOrDedicatedTF_InfoList,		
dynamic	CommonOrDedicatedTF_InfoList_DynamicTTI		
},			
semistaticTF_Informat	ion SemistaticTF_Information		
]}			

ASN.1 Type Definition		
Type Name CommonOrDedicatedTF_InfoList		
Comment	Transport Format Set	
Type Definition		
SEQUENCE (SIZE (1maxTF)) OF CommonOrDedicatedTF_Info		

ASN.1 Type Definition			
Type Name	CommonOrDedicatedTF_Info		
Comment	Transport Format Set		
Type Definition			
<pre>SEQUENCE { tb_Size numberOfTbSizeLi logicalChannelLi }</pre>			

ASN.1 Type Definition			
Type Name	CommonOrDedicatedTF_InfoList_DynamicTTI		
Comment	Transport Format Set for TDD mode		
Type Definition			
<pre>SEQUENCE { tb_Size numberOfTbSizeLi logicalChannelLi }</pre>	~ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		

ASN.1 Type Definition			
Type Name	TrchConfigType		
Comment			
Type Definition			
CHOICE {			
	nonDch	NULL,	
	dch	ENUMERATED $\{nNormal(0), sSoftHO(1)\}$	

7.3.2.2.14a CPHY_UL_PowerModify

ASN.1 ASP Type Definition			
Type Name		CPHY_UL_PowerModify_CNF	
PCO Type		CSAP	
Comme	<u>ent</u>	To confirm the increase/decrease in UE uplink DPCH power transmission or send	
		the TPC commands as instructed.	
		Type Definition	
SEQUENCE	{		
cellId		<pre>INTEGER(063),</pre>	
routingInfo		nfo RoutingInfo	
}			

ASN 1 ASP Type Definition		
Toma Name	ASN.1 ASP Type Definition	
Type Name	CPHY_UL_PowerModify_REQ	
PCO Type	<u>CSAP</u>	
<u>Comment</u>	To request increase/decrease in the UE uplink DPCH transmission by the delta value given in dB, from the existing transmission level or make UE to transmit at maximum or minimum power level. It is assumed that the UE UL DPCH transmission power level is set to -20dbm by default at beginning of each test. For routing Info the DI DPCH Physical channel ID shall be used. For IE ul DPCH Id, the physical channel ID of associated UL DPCH shall be given. SS can use it or neglect it. UI_UE_TxPower gives either the value in dB, by which SS shall increase/decrease the uplink transmission power of UE from the existing transmission power, when this primitive is called or Start transmission of TPC commands on DL DPCCH as configured	
	Type Definition	
SEQUENCE {		
cellId	<pre>INTEGER(063),</pre>	
routin	gInfo RoutingInfo,	
ul_DPC	H_Id INTEGER (031),	
ul_UE_	<pre>Ix_Power Ul_UE_Tx_Power</pre>	
}		

ASN.1 Type Definition			
Type Name	UI_UE_Tx_Power		
Comment	Choice delta gives the value in dB, by which the existing UE UL DPCH		
	transmission power level is to be increased or decreased. After reaching the new		
	desired level SS shall make UE to maintain this new transmission power level.		
	WithChoice maxMin, and ENUM 'tpc_Up' selection, SS shall start transmitting		
	TPC commands on the DL DPCCH, as '1' every slot so as to ask UE to increase		
	the transmission power.		
	With Choice maxMin, and ENUM 'tpc_Down' selection, SS shall start transmitting		
	TPC commands on the DL DPCCH, as '0' every slot so as to ask UE to decrease		
	the transmission power.		
With Choice maxMin, and ENUM 'tpc Maintain' selection, SS will start			
	transmitting TPC commands on the DL DPCCH, as alternate '0' and '1' in		
	alternate slots so as to maintain the UE uplink transmission power		
	Type Definition		
CHOICE {			
deltaINTEGER			
maxMin	<pre>ENUMERATED{ tpc_Up(0), tpc_Down(1), tpc_Maintain(2) }</pre>		
1			

7.3.2.2.16 CMAC_Ciphering_Activate

ASN.1 ASP Type Definition			
Type Name	Type Name CMAC_Ciphering_Activate_CNF		
PCO Type	PCO Type CSAP		
Comment	Comment To confirm to activate or inactivate the ciphering		
	Type Definition		
SEQUENCE {	SEQUENCE {		
cellid INTEGER(-163),			
routingInfo RoutingInfo			
}			

ASN.1 ASP Type Definition				
Type Name	CMAC_Ciphering_A	Ciphering_Activate_REQ		
PCO Type	CSAP			
Comment	The physicalChanne Initialize the 20 MSB If the value of incHFI HFN component in C COUNT-C at every 0 If the value of incHFI remainingLSBs of HI initialize the LSBs of	N is set to "IncPerCFN_Cycle" the SS initializes the FN component in COUNT-C accordingly. If it is absent the SS HFN component in COUNT-C to zero, increments the HFN IT-C by one and then starts the increment HFN part of		
		Type Definition		
SEQUENCE {		<pre>INTEGER(-163), RoutingInfo, RatType, CN_DomainIdentity, CipheringModeInfo,</pre>		

ASN.1 Type Definition			
Type Na	Type Name Increment_Mode		
Commo	Comment		
Type Definition			
ENUMERATED {i IncPerCFN Cycler(0), nNotIncr(1), i IncByOne IncPerCFN Cycle(2)}			

7.3.2.2.17 CMAC_Config

ASN.1 ASP Type Definition			
Type Name CMAC_Config_CNF			
PCO Type CSAP			
Comment	For MAC emulator to report that a previous attempt to setup, reconfigure or release a logical channel is successful.		
	Type Definition		
	lid INTEGER(-163), utingInfo RoutingInfo		

ASN.1 ASP Type Definition				
Type Name		CMAC_Config_REQ		
PCO Type		CSAP		
Comment		To request to configure MAC entity. Setup is used for creation of the MAC instances or the MAC resources. Release is used for free the all MAC resources. The reconfiguration is to change the MAC parameters, it is not the MAC modification.		
Type Definition				
SEQUENCE	{ cellId routingIn ratType configMen setun recon relea	RatType, ssage CHOICE { CmacConfigReq, nfigure CmacConfigReq,		

ASN.1 Type Definition				
Type Name		CmacConfigReq		
Comment		To request to configure MAC		
		Type Defin	ition	
SEQUENCE { activationTime uE_Info trCHInfo trCH_LogCHMapping RACHTrasmissionCtrolElements CPCHTransmissionControlElements }		CHMapping rasmissionCtrolElements	SS_ActivationTime, UE_Info, TrCHInfo, TrCH_LogCHMappingList1 TBD, TBD	

ASN.1 Type Definition			
Type Name	UE_Info		
Comment	The value of c_RNTI_DSCH_RNTI is 16 bits, used either for C-RNTI or DSCH-RNTI. DSCH is configured if the physical channel in CMAC_config_REQ is a PDSCH. Otherwise, C-RNTI is applied.		
	Type Definition		
SEQUENCE {			
u_RNTI	U_RNTI OPTIONAL,		
c_RNTI_DSCH_ }	RNTI C_RNTI OPTIONAL		

ASN.1 Type Definition				
Type Name	TrCH_LogCHMappingList1			
Comment	maxulTrCH = maxdlTrCH = 16			
	Type Definition			
SEQUENCE {				
ulconnectedT trch trCH	id TransportChannelIdentity, _LogCHMappingList TrCH_LogCHMappingList			
dlconnectedT trch trCH	id TransportChannelIdentity, _LogCHMappingList TrCH_LogCHMappingList			
}	}, OPTIONAL			

ASN.1 Type Definition			
Type Name	Type Name TrCH_LogCHMappingList		
Comment	maxLogCHperTrCH = 15		
Type Definition			
SEQUENCE (SIZE (1m	axLogCHperTrCH)) OF	TrCH_LogicalChannelMapping	

ASN.1 Type Definition			
Type Name	TrCHInfo		
	The same TFCS information should be provided to the PHY and MAC layers at all times. When a CMAC_Config_REQ is used to configure the MAC layer, a corresponding CPHY_TrCH_Config_REQ should be sent to the PHY layer to ensure that the configuration is consistent.		
	Type Definition		
SEQUENCE { ulconnectedT: trch: trans			
dlconnectedT: trch: transportChai	TrCHList SEQUENCE (SIZE (1maxdlTrCH)) OF SEQUENCE { Indicate the sequence of		
dlTFCS	} OPTIONAL,		

	ASN.1 Type Definition				
Type Name TrCH_LogicalChannelMapping					
Comm	ent				
		T	ype Definition	1	
SEQUENCE			-	SS_DL_Logic {-3132}	calChannelMapping, calChannelMapping OPTIONAL, OPTIONAL
}		-		-	

	ASN.1 Type Definition				
Type Name	SS_UL_LogicalChannelMapping				
Comment	If the macHeaderManipulation field is 'NormalMacHeader', then data received on the transport channel supporting this logical channel shall have it's MAC header inspected to determine the appropriate routing, and removed as normal. The MAC SDU shall be passed to the appropriate logical channel. If the macHeaderManipulation field field is 'OmitMacHeader', then data received on the transport channel supporting this logical channel shall have it's MAC header inspected to determine the appropriate routing, but the MAC layer shall not remove the MAC header. Thus the entire MAC PDU shall be passed to the appropriate logical channel, and the MAC header can be checked by the TTCN.				
	Type Definition				
SEQUENCE {					
macHeaderManipulation		MAC_HeaderManipulation,			
${ t ul_TransportChannelType}$		$SS_UL_TransportChannelType$,			
logicalChannelIdentity		LogicalChannelIdentity,			
logicalChannelType }		LogicalChannelType			

	ASN.1 Type Definition			
Type Name	SS_DL_LogicalChannelMapping			
Comment	If the macHeaderManipulation field is 'NormalMacHeader', then data transmitted on this logical channel shall have an appropriate MAC header added before it is sent to lower layers for transmission. If the macHeaderManipulation field is 'OmitMacHeader', then data transmitted on this logical channel shall not have any MAC header information added, even if the logical channel type and mapping indicates that there should be a MAC header present. This allows the entire MAC PDU to be specified in the TTCN, so individual fields in the MAC header can be modified.			
		Type Definition		
SEQUENCE {				
macHeaderManipulation		MAC_HeaderManipulation,		
dlTransportChann		SS_DL_TransportChannelType,		
logicalChannelId	-	LogicalChannelIdentity,		
logicalChannelTy	pe	LogicalChannelType,		
rlc_SizeList		CHOICE {		
allSizes		NULL,		
configured		NULL,		
explicitList		<pre>RLC_SizeExplicitList},</pre>		
mac_LogicalChann	elPriority	MAC_LogicalChannelPriority OPTIONAL		
}				

ASN.1 Type Definition			
Type Name	Type Name SS_UL_TransportChannelType		
Comment	Comment		
	Type Definition		
ENUMELATED {			
dch (0),			
rach (1),			
cpch (2),			
usch (3)			
}			

ASN.1 Type Definition		
Type Name	MAC_LogicalChannelPriority	
Comment		
Type Definition		
INTEGER (18)		

ASN.1 Type Definition			
Type N	Type Name MAC_HeaderManipulation		
Comm	Comment		
Type Definition			
ENUMERATED	{ nNormalMacoomitMacl	acHeader (0), Header (1)	

7.3.2.2.22a CRLC_Bind_TestData_TTI

ASN.1 ASP Type Definition			
Type Name	CRLC_Bind_TestData_TTI_CNF		
PCO Type	CSAP		
To confirm the request of binding subsequent data sending RLC_TR_TestDataReg on the different DL RBs in the same TTI.			
Type Definition			
SEQUENCE {	<pre>INTEGER(-163), ENUMERATED{fFailure(0), sSuccess(1)}</pre>		

	ASN.1 ASP Type Definition				
Type Name	CRLC_Bind_TestData_TTI_REQ				
PCO Type	CSAP				
To request binding subsequent data sending RLC_TR_TestDataReq or different DL RBs in the same TTI. On the request, the transmission of the test data is temporarily suppress those radio bearers which follow subsequently this CRLC_Bind_TestData_TTI_REQ and have 'numOfDiffRb' different RB Having received the number 'numOfDiffRb' of RLC_TR_TestDataReq, RLC sends the test data on those RBs in the same TTI according to the DL TFCS.					
	Type Definition				
SEQUENCE {	INTEGER(-163), fRb INTEGER(26) Number of different RB IDs				

7.3.2.2.23 CRLC_Ciphering_Activate

ASN.1 ASP Type Definition			
Type Name CRLC_Ciphering_Activate_CNF			
PCO Type CSAP			
Comment	To confirm to activate or inactivate the ciphering		
Type Definition			
SEQUENCE {			
cellId	INTEGER(-163)		
}			

	ASN.1 ASP Type Definition			
Type Name	CRLC_Ciphering_Act	ivate_REQ		
PCO Type	CSAP	CSAP		
To request to start orrestart downlink ciphering or uplink deciphering. Each the ASP includes one RLC SN in rb-DL-CiphActivationTimeInfo for the corresponding rb-identity. Initialize the 20 MSB of HFN component of COUNT-C to the START value For RLC_UM COUNT-C: If the value of incHFN is set to "NotInc" the SS initializes the remaining of HFN component in UM COUNT-C to zero. If the value of incHFN is set to "Inc" the SS initializes the remaining L HFN component in UM COUNT-C to zero, then increments the HFN to For RLC_AM COUNT-C: If the value of incHFN is set to "NotInc" no further action is needed.		RLC SN in rb-DL-CiphActivationTimeInfo for the atity. of HFN component of COUNT-C to the START value stored. i-C: HFN is set to "NotInc" the SS initialiszes the remaining LSBs at in UM COUNT-C to zero. HFN is set to "Inc" the SS initializes the remaining LSBs of n UM COUNT-C to zero, then increments the HFN by one. i-C:		
		ype Definition		
_	inIdentity ivationInfo RLC_IncMode	<pre>INTEGER(-163), RatType, CN_DomainIdentity, CiphActivationInfo,</pre>		

	ASN.1 Type Definition				
Type N	Type Name CiphActivationInfo				
Comment DL or UL ciphering activation info		ion info			
If RB is omitted in rB_UL_CiphActivationTimeInfo the SS takes no action of					
	RB and the ciphering configuration keeps unchanged on this RB.				
	CipheringModeCommand = dummy NULL means no ciphering.				
	Type Definition				
CHOICE {					
	-	gModeInfo	CipheringModeInfo,		
}	rb_UL_Ci	phActivationTimeInfo	RB_ActivationTimeInfoList		

ASN.1 Type Definition		
Type Name	RLC_IncMode	
Comment		
Type Definition		
<pre>ENUMERATED{nNotInc(0), iInc(1)}</pre>		

7.3.2.2.24 CRLC_Config

ASN.1 ASP Type Definition			
Type Name	CRLC_Config_CNF		
PCO Type	CSAP		
Comment	For RLC emulator to confirm that a previous attempt to establish, re_configure or		
	release a radio bearer has been successful.		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(-163),		
routingI	nfo RoutingInfo		
}	mio Routinginio		

ASN.1 ASP Type Definition			
Type Name	CRLC_Config_REQ		
PCO Type	CSAP		
Comment	To request to setup, reconfigure or release RLC entity		
	Type Definition		
SEQUENCE {	RatType,		

		ASN.1 Type Definition	
Ту	pe Name	CrlcConfigReq	
Comment		To request to setup, re_configure release RLC entity The Stop parameter indicates that the RLC entity shall not transmit or receive RLC PDUs. The Continue parameter indicates that the RLC entity shall continue transmission and reception of RLC PDUs. When the RLC entity is stopped, the all protocol parameters, such as the protocol variables, RLC timers and status are not affected. Triggered polls and status transmissions are delayed until the RLC entity is continued.	
		Type Definition	
CHOICE }	<pre>setup reconfigure release sS_stop sS_continue</pre>	RBInfo, RBInfo, NULL, NULL, NULL	

ASN.1 Type Definition				
Type Name	RBInfo			
Comment				
		Type Definition		
SEQUENCE {				
ss	sS_rlc_Info SS_RLC_Info OPTIONAL,			
rI	B_LogCH_Mapping	RB_LogCH_Mapping		
}				

ASN.1 Type Definition				
Type Name	RB_LogCH_Mapping			
Comment	Provide mapping information between RB, logical channel and CN domain.			
	Type Definition			
SEQUENCE {				
uLlogicalChannel	Identity LogicalChannelIdentity OPTIONAL,			
dLlogicalChannel	Identity LogicalChannelIdentity OPTIONAL,			
logicalChannelTy	pe LogicalChannelType OPTIONAL,			
cn-DomainIdentit	y CN-DomainIdentity OPTIONAL			
}				

ASN.1 Type Definition				
Type Name	SS_RLC_Info			
Comment	UL and DL have been swapped intentionally in this type definition. This is to maximize re-use of the type definitions in 3GPP TS 25.331 [Error! Reference source not found.] which are intended to configure a UE, where UL is transmission, and DL is reception. For the SS, UL is reception, and DL is transmission. For example, consider configuring a DL AM RLC entity (transmitter) in the SS. The transmission parameters to be configured include PollingInformation, Transmission-RLC-Discard etc. If the DL-AM-RLC-Mode type definition is used to configure this entity, it is only possible to configure reception parameters such as StatusInformation, and receiving window size. By swapping UL and DL, it is possible to configure the DL AM RLC entity using the existing type definition UL-AM-RLC-Info, which contains all of the required transmission parameters. Type Definition			
Type Definition				
SEQUENCE { sS_ul_RL	.C_Mode DL_RLC_Mode	OPTIONAL,		
ss_dl_RL sS_dl_RL		OPTIONAL,		

ASN.1 Type Definition					
Type I	Name	SS_DL	_RLC_Mode		
Comi	ment				
Type Definition					
SEQUENCE }	{ dl_Paylo			PayloadSize UL_RLC_Mode	OPTIONAL,

ASN.1 Type Definition		
Type Name	PayloadSize	
Comment		
		Type Definition
INTEGER (04992)		

7.3.2.2.27a CRLC_RRC_MessageSN

ASN.1 ASP Type Definition			
Type Name	CRLC_RRC_MessageSN_CNF		
PCO Type	CSAP		
Comment	To return the requested counter I value contents (HFN and RRC message		
	sequence number) for sending the next DL RRC message or for receiving the		
	next UL RRC message on the concerned SRB.		
	COUNT_I_MSB is the 28 MSB of the COUNT-I (HFN)		
	Type Definition		
SEQUENCE {			
cellId	INTEGER(-163),		
routingI	nfo RoutingInfo,		
count_I_	MSB_UL COUNT_I_MSB,		
count_I_	LSB_UL RRC_SequenceNumber,		
count_I_	MSB_DL COUNT_I_MSB,		
count_I_	LSB_DL RRC_SequenceNumber		
}			

ASN.1 Type Definition		
Type Name	COUNT_I_MSB	
Comment	28 bits long	
Type Definition		
INTEGER (0268435455)		

ASN.1 Type Definition		
Type Name	RRC_SequenceNumber	
Comment	4 bits long	
	Type Definition	
INTEGER (015)		

ASN.1 ASP Type Definition				
Type Name	CRLC_RRC_MessageSN_REQ			
PCO Type	CSAP			
To request the SS to return the current content values in COUNT-I for sending next DL RRC message or for receiving the next UL RRC message on the concerned SRB.				
	Type Definition			
SEQUENCE {	INTEGER(-163), nfo RoutingInfo			

7.3.2.2.29 CRLC_SequenceNumber

	ASN.1 ASP Type Definition				
Type Name	Type Name CRLC_Sequence_Number_CNF				
PCO Type	CSAP				
Comment		e requested counter sequence number to which the next DL PDU to			
	be sent or th	ne expected UL PDU to be received.			
	Type Definition				
SEQUENCE {					
ce]	llId	INTEGER(-163),			
rou	utingInfo	RoutingInfo,			
col	ınt_C_MSB_UL	COUNT_C_MSB,			
COL	int_C_LSB_UL	RLC_SequenceNumber,			
COL	unt_C_MSB_DL	COUNT_C_MSB,			
cou	int_C_LSB_DL	RLC_SequenceNumber			
}					

ASN.1 ASP Type Definition				
Type Name CRLC_SequenceNumber_REQ				
PCO T	Туре	CSAP		
Comment To request the RLC layer to return current counter sequence numbers				
the next DL PDU to be sent or the expected UL PDU to be received.				
		Type Definition		
SEQUENCE	{			
cellId		INTEGER(-163),		
routingInfo		nfo RoutingInfo		

7.3.2.2.29a CRLC_SendContinuousData_TTI

ASN.1 ASP Type Definition					
Type Name CRLC_SendContinuousData_CNF					
PCO Type CSAP					
Comm	ent	nfirm sending data in every TTI on each requested RB			
	Type Definition				
SEQUENCE	{ cellId result	<pre>INTEGER(-163), ENUMERATED{fFailure(0), sSuccess(1)}</pre>			

		ASN.1 ASP Type Definition	
Type Name CRLC_SendContinuousData_REQ			
PCO Type CSAP			
To request sending data in every TTI on ear After the CMAC_Restriction_REQ, the TFC corresponding to the maximum CTFC value select the number of Transport blocks and individual Transport channels derived from SS shall take care about all kind of discard goal is that the DL TFCs under test shall be		To request sending data in every TTI on each RB identified. After the CMAC_Restriction_REQ, the TFC under test will be the one corresponding to the maximum CTFC value in the Restricted list, so that SS can select the number of Transport blocks and the size of Transport blocks on individual Transport channels derived from this CTFC. SS shall take care about all kind of discard info in all RLC modes and the final goal is that the DL TFCs under test shall be selected in downlink for sending data on the request RBs in each TTI.	
		Type Definition	
SEQUENCE }	{ cellId rabTxInfo	INTEGER(-163), RabTxInfo	

ASN.1 Type Definition			
Type Name	RabTxInfo		
Comment	Provide test data, number of RBs, and RB Tx info of each RB (RB id, SDU size and number of SDUs) to be transmitted in consecutive TTIs		
Type Definition			
SEQUENCE { testData BIT STRING (SIZE (8163840)), rbTxInfoList SEQUENCE (SIZE (16)) OF RbTxInfo }			

ASN.1 Type Definition					
Type Name	RbTxInfo	RbTxInfo			
Comment	Info on RB id and the actual DL test data size (SDU_Size * number of SDUs). The actual test data is extracted from the first (SDU_Size * number of SDUs) bits in the raw testData buffer. SS shall transmit the actual test data in every TTI. The value nomOfSdu = T / TTI, whereby T=1200 is the duration of the data transmitting in the RAB test, taking into account the test tolerance (+50 %) of the UE loop back delay (< 800 ms).				
Type Definition					
SEQUENCE { rB_Identity sduSize nomOfSdu }	INTEGER INTEGER INTEGER	(-3132), (1163840), (0255) 0 is set for no data on this RB			

7.3.2.2.30 CRLC_Status

ASN.1 ASP Type Definition			
Type I	Type Name CRLC_Status_IND		
PCO.	Туре	CSAP	
Comr	Comment To report the occurrence of certain events to RRC. Note: the possible event types to be defined for this ASP is FFS.		
		Type Definition	
SEQUENCE }	{ cellId routingI: ratType statusIn	RatType,	

ASN.1 Type Definition					
Type Name CricStatusInd		CrlcStatusInd			
Comment					
		Type Definition			
ENUMERATED {	ENUMERATED {				
d	d $ extstyle$ $ extstyle$ $ extstyle$ d $ extstyle$ $ extstyle$ e $ extstyle$ d $ extstyle$ e $ extstyle$ d $ extstyle$ e $ extstyle$ e $ extstyle$ d $ extstyle$ e $ ext$				
ml	mMaxRESET (1),				
sSDUDiscarded (2)					
More event types are to be added here					
}					

7.3.4.3.1.1 ASPs for data transmission and reception through GERAN L2

ASP Name	G L2 DATA REQ			
PCO Type	G_DSAP			
Comments	The ASP is used to send L3 signalling message on the signalling channels or user data on the traffic channels to the UE/MS in acknowledged mode.			
Param	neter Name		Parameter Type	Comments
cellId			CellId	
sAPI			SAPI	0 or 3
physicalChId			PhysicalChId	Channel identifier
g_LogicChType			G_LogicChType	
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
rfn			RFN	The reduced frame number of the first frame on which this message is sent. This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.
msg			PDU	Signalling message or user data to be sent
Detailed Cor	Parameter rfn is only used in the test cases that require L3 message to be sent on specified frame number.			

ASP Name	G_L2_DATA_IND			
PCO Type	G_DSAP			
Comments	The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in acknowledged mode.			
Par	ameter Name	Parameter Type	Comments	
cellId		CellId		
sAPI		SAPI	0 or 3	
physicalChld		PhysicalChId	Channel identifier	
g_LogicChTyp	е	G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
rfn		RFN	The reduced frame number of the first frame carrying the message	
msg		PDU	Signalling message or user data received	
Detailed (Comments			

ASP Name	G_L2_L2Estab_IND			
PCO Type	G_DSAP			
Comments	The ASP is used to receive an indication of that L2 multiple frame operation on the specified channel has been established.			
Paran	neter Name		Parameter Type	Comments
cellId			CellId	
physicalChld			PhysicalChId	Channel identifier
g_LogicChType			G_LogicChType	
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field shall be coded as 15 if it is not applicable.	
sAPI		SAPI	0,3	
establish_mode			OCTETSTRING[1]	
rfn		RFN	The reduced frame number of the first frame carries the L2 SABM frame	
9		PDU	this field is present only when the establish mode is CoRes (collision resolution)	
Detailed Co	see 3GPP TS 44.006 [Error! Reference source not found.] clauses 7.1.1 and 7.1.3			

ASP Name	G_L2_UNITDATA_REQ		
PCO Type	G_DSAP		
Comments	The ASP is used to send L3 signalling message on the signalling channels or send user data on the traffic channels to the UE/MS in unacknowledged mode.		
Paran	neter Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0 or 3
physicalChld		PhysicalChld	Channel identifier
g_LogicChType		G_LogicChType	
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.
rfn		RFN	The reduced frame number of the first frame on which this message is sent. This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.
msg		PDU	Signalling message or user data to be sent
Detailed Co	Detailed Comments Parameter fn is only used in the test cases that require specific L3 message to be sent o specified frame number.		

ASP Name G_L2	G_L2_UNITDATA_IND		
PCO Type G_DS	G_DSAP		
	Comments The ASP is used to receive a L3 signalling message on the signalling channels or user data on the traffic channels from the UE/MS in unacknowledged mode.		
Paramete	er Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0 or 3
physicalChld		PhysicalChld	Channel identifier
g_LogicChType		G_LogicChType	
subChannel		SubChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.
rfn		RFN	The reduced frame number of the first frame carrying the message
msg		PDU	Signalling message or user data received
Detailed Comm	ents		

ASP Name G_L2_ACCESS_I	G_L2_ACCESS_IND		
PCO Type G_DSAP	G_DSAP		
Comments The ASP is used	The ASP is used to receive a random access or handover access burst on the specified channel.		
Parameter Name	Parameter Type	Comments	
cellId	CellId		
physicalChld	PhysicalChId	Channel identifier	
g_LogicChType	G_LogicChType	RACH, FACCH, SDCCH/8, SDCCH/4. RACH is used for random access burst; others are used for handover access burst	
subChannel	SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8, SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.	
rfn	RFN	The reduced frame number of the first frame carrying the burst	
burst	PDU	Random access burst or handover access burst	
Detailed Comments			

ASP Name	G_L2_Paging_REQ		
PCO Type	G_DSAP		
Comments	The ASP is used to send a paging message on the specified paging group of the specified paging channel to the UE/MS, when the UE/MS is in idle mode or the UE/MS not supporting SPLIT_PG_CYCLE on CCCH is in GPRS attached mode and PCCCH is absent.		
Paran	neter Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0
physicalChld		PhysicalChId	Channel identifier of the right CCCH_GROUP
g_LogicChType		G_LogicChType	PCH
pagingGroup		PAGING_GROUP	
pagingMode		PagingMode	0-normal paging; 1-extended paging; 2-paging reorganization.
msg		PDU	Paging message
Detailed Com	The SS is required to send valid layer 3 messages continuously on all paging subchannels and CCCH where paging can appear. For "normal paging" the SS send the paging message in the specified pagingGroup; For "extended paging" " the SS send the paging message in the specified pagingGroup and in the "next but one" position on the PCH, following the block corresponding to pagingGroup for "paging reorganization" the SS send the paging message in all paging subchannels. The required 51-multiframe occurs when: pagingGroup div (N div BS_PA_MFRMS) = (FN div 51) mod (BS_PA_MFRMS) The index to the required paging block in the 51-multiframe determined above: Paging block index = pagingGroup mod (N div BS_PA_MFRMS) N = (9-BS_AG_BLKS_RES) * BS_PA_MFRMS		ng message in the specified pagingGroup; paging message in the specified pagingGroup and following the block corresponding to pagingGroup; the paging message in all paging subchannels. = (FN div 51) mod (BS_PA_MFRMS) the 51-multiframe determined above: I div BS_PA_MFRMS) RMS CCCH not combined or

ASP Name	G_L2_PagingGPRS_REQ		
PCO Type	G_DSAP		
Comments	The ASP is used to send a paging message on the specified paging group of the specified paging channel to the UE/MS, when the UE/MS supporting SPLIT_PG_CYCLE on CCCH is in GPRS attached mode and PCCCH absent.		
	meter Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0
physicalChld		PhysicalChId	Channel identifier of the right CCCH_GROUP
g_LogicChType	е	G_LogicChType	PCH
pagingGroup		PAGING_GROUP	
			0-normal paging;
pagingMode		PagingMode	1-extended paging;
		5511	2-paging reorganization.
msg	 		
Detailed Co	msg PDU Paging message The SS is required to send valid layer 3 messages continuously on all paging subchannels on CCCH where paging can appear. For "normal paging" the SS send the paging message in the specified pagingGroup; For "extended paging" " the SS send the paging message in the specified pagingGroup and in the "next but one" position on the PCH, following the block corresponding to pagingGroup; For "paging reorganization" the SS send the paging message in all paging subchannels. The required 51-multiframe occurs when: pagingGroup div (M div 64) = (FN div 51) mod 64 The index to the required paging block in the 51-multiframe determined above: Paging block index = pagingGroup mod (M div 64) M = (9-BS_AG_BLKS_RES) × 64 CCCH not combined or M = (3-BS_AG_BLKS_RES) × 64 CCCH + SDCCH combined		
NOTE: This			

Type Name	Cellid
Type Definition	INTEGER
Type Encoding	
Comments	

Type Name	SAPI
Type Definition	INTEGER
Type Encoding	
Comments	Service access point identifier for GERAN L2 and LLC

Type Name	PhysicalChId
Type Definition	INTEGER(031)
Type Encoding	
Comments	Physical channel identifier in GERAN

Type Name	G_LogicChType
Type Definition	INTEGER
Type Encoding	
	GERAN logical channel type:
	0-BCCH;
	1-RACH;
	2-PCH;
	3-AGCH;
	4-SDCCH/4;
	5-SACCH/C4;
	6-SDCCH/8;
	7-SACCH/C8;
	8-TCH/F;
	9-FACCH/F;
	10-SACCH/TF;
	11-TCH/H;
Comments	12-FACCH/H;
	13-SACCH/TH;
	14-PBCCH;
	15-PRACH;
	16-PPCH;
	17-PAGCH; 18-PDTCH/F;
	19-PACCH/F;
	20-PTCCH/F;
	21-E-TCH/F;
	22-E-IACCH/F;
	23-E-FACCH/F;
	24-SACCH/M;
	25-SACCH/MD

Type Name	SubChannelNumber
Type Definition	INTEGER
Type Encoding	
Comments	Subchannel number for TCH/H, FACCH/H, SACCH/TH, SDCCH/4, SDCCH/C4, SDCCH/8 and SDCCH/C8. For TCH/H, FACCH/H and SACCH/TH value is (01); For SDCCH/8 and SACCH/C8 value is (07); For SDCCH/4 and SACCH/C4 value is (03).

Type Name	PAGING_GROUP
Type Definition	INTEGER
Type Encoding	
Comments	3GPP TS 05.02 or 3GPP TS 45.002 [Error! Reference source not found.] clauses 6.5.2 and 6.5.6

Type Name	PagingMode
Type Definition	INTEGER
Type Encoding	
	0 - normal paging;
Comments	1 - extended paging;
	2 - paging reorganization.

Type Name	RFN		
Encoding Variation			
Comments	The reduced frame number, its range is 0 4243	31 (FN modulo	42432) about 195.8 s
Element Name	Type Definition Field Comments		
t1_	BITSTRING[5]		(FN div 1326) mod 32
t3	BITSTRING[6]		FN mod 51
t2	BITSTRING[5]		FN mod 26
Detailed Comments	see 3GPP TS 04.18 or 3GPP TS 44.018 [Error! Reference source not found.] clause 10.5.2.38. The reduced frame number, FN modulo 42432 can be calculated in the following formula: 51 × ((t3 - t2) mod 26) + t3 + 1326 × t1 RFN is used for starting time and TBF starting time.		

ASP Name	G_L2_Releas	G_L2_Release_CNF		
PCO Type	G_DSAP			
Comments		This ASP from L2, indicates that the multiple frame operation release was successful. This means that the UA message was received in response to L2 DISC command.		
Parameter	Name	Parameter Type	Comments	
cellId		CellId		
sAPI		SAPI	0 or 3	
physicalChld	PhysicalChId Channel identifier		Channel identifier	
g_LogicChType	pe G_LogicChType			
subChannel		SubChannelNumber	For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.	
releaseMode		BITSTRING[1]	0 = normal release; 1 = local release.	
Detailed Cor	nments			

ASP Name	G_L2_Release_REQ		
PCO Type	G_DSAP		
Comments	This ASP rec	quests L2 to send Layer 2 DISC co	ommand on the indicated SAPI.
Parameter	Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0 or 3
physicalChld		PhysicalChld	Channel identifier
g_LogicChType		G_LogicChType	
subChannel		SubChannelNumber	For SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03). This field is not applicable and the SS shall ignore it if this field is coded as 15.
releaseMode		BITSTRING[1]	0 = normal release; 1 = local release.
Detailed Cor	nments		

ASP Name	G L2 Release IND		
PCO Type	G_DSAP		
			termination of an established multiple frame operation
Devemeter	•	on of an unsuccessful establishme	
<u>Parameter</u>		Parameter Type	<u>Comments</u>
cellld		<u>CellId</u>	
sAPI		<u>SAPI</u>	<u>0</u>
physicalChld		PhysicalChld	Channel identifier
g LogicChType		G LogicChType	
<u>subChannel</u>		<u>SubChannelNumber</u>	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); for SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03).
<u>releaseMode</u>		BITSTRING[1]	0 = normal release; 1 = local end release
outstanding_Indic	<u>ator</u>	BOOLEAN	whether or not there are outstanding acknowledgements or unsolved G_L2_DATA_REQ primitives.
Detailed Cor	mments		

ASP Name	G_L2_SYSINFO_RE	G_L2_SYSINFO_REQ		
PCO Type	G_DSAP			
Comments	The ASP is used to send system information messages to the lower layer emulator.			
Param	eter Name	Parameter Type	Comments	
cellId		CellId		
sAPI		SAPI	0	
physicalChld		PhysicalChld		
g_LogicChType		G_LogicChType	BCCH or SACCH	
instanceIndex		INTEGER	To indicate the instance of the system information messages. For SYSTEM INFORMATION Type 2ter, 18, 19, 20 the value is (07); for type 14, 15 the value is (03); for type 2quater the value is (015); for all other type the value is 0.	
sysInfoType		SysInfoType	SYSTEM INFORMATION Type 5, 5bis, 5ter, and 6 are sent on SACCH, the other SYSTEM INFORMATION 's are sent on BCCH.	
msg		PDU	This field contains SYSTEM INFORMATION message. See 3GPP TS 44.018 [43] clause 9.1.31 to clause 9.1.43h for SYSTEM INFORMATION message definitions.	
Detailed Cor	nments periodica	ally according to the rule 45.002 [Error! Refere	tore the SYSTEM INFORMATION's, and transmit them as specified in clause 6.3.1.3 of 3GPP TS 05.02 or ance source not found.]. The msg shall override the message previous stored in the lower layer emulator.	

Type Name	SysInfoType
Type Definition	INTEGER
Type Encoding	
Comments	25SYSTEM INFORMATION TYPE 1 26SYSTEM INFORMATION TYPE 2bis 3 SYSTEM INFORMATION TYPE 2ter 7 SYSTEM INFORMATION TYPE 2quater 27SYSTEM INFORMATION TYPE 3 28SYSTEM INFORMATION TYPE 4 29SYSTEM INFORMATION TYPE 5 5 SYSTEM INFORMATION TYPE 5bis 6 SYSTEM INFORMATION TYPE 5ter 30SYSTEM INFORMATION TYPE 6 31SYSTEM INFORMATION TYPE 7 24SYSTEM INFORMATION TYPE 8 4 SYSTEM INFORMATION TYPE 9 0 SYSTEM INFORMATION TYPE 13 61SYSTEM INFORMATION TYPE 16 62SYSTEM INFORMATION TYPE 17 64SYSTEM INFORMATION TYPE 18 65SYSTEM INFORMATION TYPE 19 66SYSTEM INFORMATION TYPE 19

7.3.4.3.2.2 ASPs for configuration and control of GERAN L2

ASP Name	G_CL2_I	HoldPhyInfo_REQ		
PCO Type	G_CSAP	G_CSAP		
Comments	PCO G_I	The ASP commands the SS to hold the PHYSICAL INFORMATION message, which will be sent on PCO G_L2 following the current ASP. The PHYSICAL INFORMATION message shall be sent to the UE/MS within T3124 from the time when the SS has received n handover access bursts.		
Parameter N	lame	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType	nType G_LogicChType			
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field is not applicable and the SS shall ignore it if this field is coded as 15.	
n		INTEGER	The number of handover access bursts to be received	
Detailed Com	ments	T3124 is defined in 3GPP TS 04.18 or 3GPP TS 44.018 [Error! Reference source not found.] clauses 3.4.4.2.2 and 11.1.1		

ASP Name	G_CL2	G_CL2_HoldPhyInfo_CNF		
PCO Type	G_CSA	G_CSAP		
Comments	The AS	P is used to get a confi	rmation of the G_CL2_HoldPhyInfo_REQ.	
Parameter Na	ame	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Comm	nents			

ASP Name	G CL2 MeasRptControl REQ		
PCO Type	G_CSAP		
Comments	The ASP is u	sed to enable or disable the reporting	of received Measurement Reports to the TTCN
<u>Parameter</u>	<u>Name</u>	Parameter Type	<u>Comments</u>
cellld		CellId	
physicalChld		PhysicalChld	Channel identifier
g_LogicChType		G_LogicChType	Valid only for logical channel types: SACCH/TF, SACCH/TH, SACCH/C8 and SACCH/C4
subChannel		SubChannelNumber	For SACCH/TH value is (01); for SACCH/C8 value is (07); for SACCH/C4 value is (03).
sendMeasRpts		IBOOLEAN	Whether or not to report received Measurement Reports to the TTCN.
Detailed Cor	<u>mments</u>	Per default, this will be set to FALSE	

ASP Name	G_CL2_Meas	G_CL2_MeasRptControl_CNF			
PCO Type	G CSAP	G CSAP			
Comments	The ASP is u	The ASP is used to confirm that G_CL2_MeasRptControl_REQ was executed correctly			
Parameter Name Parameter Type			<u>Comments</u>		
cellld		CellId			
physicalChld	PhysicalChld Channel identifier				
Detailed Co	mments				

ASP Name	G_CL2_I	G_CL2_NoUAforSABM_REQ		
PCO Type	G_CSAF			
Comments		The ASP commands the SS not to send UA response to the UE when it receives SABM from the UE on the specified channel.		
Parameter N	lame	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Com	ments			

ASP Name G_	CL2_NoUAforSABM_CNF	2_NoUAforSABM_CNF		
PCO Type G_	CSAP			
Comments The	e ASP is used to get a confir	mation of the G_CL2_NoUAforSABM_REQ.		
Parameter Name	Parameter Type	Comments		
cellId	CellId			
physicalChld	PhysicalChld	Channel identifier		
g_LogicChType	G_LogicChType			
subChannel	SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.		
Detailed Commen	ts			

ASP Name	G_CL2_Release_IND							
PCO Type	G_DSAP							
Comments		The ASP is used to receive an indication of the termination of an established multiple frame operation or an indication of an unsuccessful establishment attempt.						
Parameter	Name	Parameter Type	Comments					
celld	Ce	llld						
sAPI	SA	(Pl	0					
physicalChld	P	ysicalChld	Channel identifier					
g_LogicChType	G _	LogicChType-						
subChannel		bChannelNumber	Valid only for logical channel types: TCH/H, FACCH/H, SACCH/TH, SDCCH/8, SACCH/C8, SDCCH/4, and SACCH/C4. For TCH/H, FACCH/H and SACCH/TH value is (01); for SDCCH/8 and SACCH/C8 value is (07); for SDCCH/4 and SACCH/C4 value is (03).					
releaseMode	BI	TSTRING[1]	0 = normal release; 1 = local end release					
outstanding_Indicator		OOLEAN	whether or not there are outstanding acknowledgements or unsolved G_L2_DATA_REQ primitives.					
Detailed Cor	mments							

ASP Name	G_CL2_Rele	G_CL2_Release_REQ					
PCO Type	G_CSAP						
Comments	The ASP is u	The ASP is used request the SS stop L2 transmission on a channel.					
Parameter Name		Parameter Type	Comments				
		i didilioto: 1 jou	- Commente				
cellld		CellId	<u></u>				
cellId physicalChld			Channel identifier				

ASP Name	G CL2 Rele	G CL2 Release CNF				
PCO Type	G_CSAP					
<u>Comments</u>	The ASP is u	The ASP is used to confirm that the G_CL2_Release_REQ is executed correctly				
Parameter Name Parameter Type Comments						
cellld		CellId				
physicalChld PhysicalChld Channel identifier						

ASP Name	G_CL2_I	G_CL2_ResumeUAforSABM_REQ				
PCO Type	G_CSAP	•				
Comments	The ASP commands the SS to send UA response to the UE when it receives SABM from the UE on the specified channel. This ASP is used after G_CL2_NoUAforSABM_REQ to resume the normal multiframe operation of L2					
Parameter N	lame	Parameter Type	Comments			
cellId		CellId				
physicalChld		PhysicalChId Channel identifier				
g_LogicChType		G_LogicChType				
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4, This field is not applicable and the SS shall ignore it if this field is coded as 15.			
Detailed Com	ments					

ASP Name	G_CL2_ResumeUAforSABM_CNF			
PCO Type	G_CSAP			
Comments	The ASP	is used to get a confirma	ation of the G_CL2_ResumeUAforSABM_REQ.	
Parameter N	ame	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
subChannel		SubChannelNumber	Valid only for logical channel types: FACCH/H, SDCCH/8 and SDCCH/4. This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Comr	ments			

8.2.4 Radio bearers

Table 1: Radio bearer identities

Identities	Direction	Туре	RLC	Service	Comments
(value assigned)	downlink		mode TM	domain NA	BCCH-BCH
tsc_RB_BCCH (-1)	1				
tsc_RB_PCCH (-2) tsc_RB_BCCH_FACH (-3)	downlink		TM TM	NA	PCCH PCH
	downlink		TM	NA	BCCH FACH
tsc_RB_2ndPCCH (-4)	downlink			NA	Second PCCH PCH SCPCCH
tsc_RB_2ndCCCH (-5)	uplink	DAD	TM	NA	Second CCCH RACH PRACH
tsc_RB_UM_7_RLC (-10)	downlink	RAB	TM	CS	For UM RLC tests using 7 bit LIs
tsc_RB_UM_7_RLC (-10)	uplink	RAB	TM	CS	For UM RLC tests using 7 bit LIs
tsc_RB_UM_15_RLC (-11)	downlink	RAB	TM	CS	For UM RLC tests using 15 bit Lls
tsc_RB_UM_15_RLC (-11)	uplink	RAB	TM	CS	For UM RLC tests using 15 bit Lls
tsc_RB_AM_7_RLC (-12)	downlink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_AM_7_RLC (-12)	uplink	RAB	TM	CS	For AM RLC tests using 7 bit LIs
tsc_RB_AM_15_RLC (-13)	downlink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_AM_15_RLC (-13)	uplink	RAB	TM	CS	For AM RLC tests using 15 bit LIs
tsc_RB_DCCH_FACH_MAC (-14)	downlink	SRB3	TM	CS	For MAC tests using DCCH
L DD DOOLL FACIL MAC (4.4)		0000	T. 4	00	mapped to FACH
tsc_RB_DCCH_FACH_MAC (-14)	uplink	SRB3	TM	CS	For MAC tests using DCCH
(DD DOOLL DOLL MAC / 45)	al a come libra lo	ODDO	TN4	00	mapped to FACH
tsc_RB_DCCH_DCH_MAC (-15)	downlink	SRB3	TM	CS	For MAC tests using DCCH
tsc RB DCCH FACH MAC (-15)	uplink	SRB3	TM	CS	mapped to DCH For MAC tests using DCCH
ISC_RB_DCCH_FACH_MAC (-15)	uplink	SKB3	I IVI	CS	mapped to DCH
tsc_RB3_DCCH_RRC_(-16)	uplink	SRB3	AM	CS or PS	For RRC test cases to route UL
ISC_RB3_DCCH_RRC_(-16)	иринк	SKD3	AIVI	CS 01 PS	NAS messages
tsc_RB_CCCH_FACH_MAC (-18)	downlink	SRB0	TM	CS or PS	For MAC test using donwlink
ISC_RB_CCCT_FACT_WAC (-16)	downlink	SKBU	I IVI	C3 01 F3	SRB0 on TM
tsc_RB_BCCH_FACH_RAB (-19)	downlink		TM	NA	BCCH FACH
tsc_RB0 (0)	uplink	SRB0	TM	CS or PS	The service domain for which the
ISC_NDO (0)	иршк	SINDO	1 171	03 01 1 3	most recent security negotiation
					took place. CCCH
tsc_RB0 (0)	downlink	SRB0	UM	CS or PS	CCCH
tsc_RB1 (1)	uplink	SRB1	UM	CS or PS	DCCH
tsc_RB1 (1)	downlink	SRB1	UM	CS or PS	DCCH
tsc_RB2 (2)	uplink	SRB2	AM	CS or PS	DCCH
tsc_RB2 (2)	downlink	SRB2	AM	CS or PS	DCCH
tsc_RB3 (3)	uplink	SRB3	AM	CS or PS	DCCH
tsc_RB3 (3)	downlink	SRB3	AM	CS or PS	DCCH
tsc_RB4 (4)	uplink	SRB4	AM	CS or PS	DCCH
tsc_RB4 (4)	downlink	SRB4	AM	CS or PS	DCCH
tsc_RB5 (5)	uplink	0	TM	5 5 5 5	DCCH
tsc_RB5 (5)	downlink		TM		DCCH
tsc_RB10 (10)	uplink	RAB#1-1	TM	CS	or RAB1
tsc_RB10 (10)	downlink	RAB#1-1	TM	CS	or RAB1
tsc_RB11 (11)	uplink	RAB#1-2	TM	CS	or RAB2
tsc_RB11 (11)	downlink	RAB#1-2	TM	CS	or RAB2
tsc_RB12 (12)	uplink	RAB#1-3	TM	CS	
	1~b	1.0.0			

Identities (value assigned)	Direction	Туре	RLC mode	Service domain	Comments
tsc_RB12 (12)	downlink	RAB#1-3	TM	CS	
tsc_RB13 (13)	uplink	RAB#2	TM	CS	
tsc_RB13 (13)	downlink	RAB#2	TM	CS	
tsc_RB20 (20)	uplink	RAB#1	AM	PS	
tsc_RB20 (20)	downlink	RAB#1	AM	PS	
tsc_RB21 (21)	uplink	RAB#2	UM	PS	
tsc_RB21 (21)	downlink	RAB#2	UM	PS	
tsc_RB22 (22)	uplink	RAB#2	AM	PS	
tsc_RB22 (22)	downlink	RAB#2	AM	PS	
tsc_RB30 (30)	downlink		UM		CTCH FACH
tsc_RB31 (31)	downlink		UM		Second CTCH FACH

The RB values 0 to 5 are used for the signalling bearers. The values 10 to 15 are assigned to the CS RAB sub-flows. The values 20 to 25 are assigned to the PS RAB sub-flows. The value 30 is assigned to the CBSMS/BMC service.

Table 2: RB identities mapping between 34.123-1 & 34.123-3

	Single CS	Single PS	Multi RAB Configuration				
	<u>RAB</u>	<u>RAB</u>	<u>CS</u> <u>PS</u>			<u>s</u>	
34.123-1	RB5	RB5	RB5	RB6	RB7	RB8	RB9
<u>34.123-3</u>	tsc_RB10	tsc_RB20	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB20	tsc_RB22

8.5.4.5 SRNS relocation

```
Simulataneous SRNS relocation will take place
either "Downlink count synchronization info" IE is received in
CELL UPDATE CONFIRM,
PHYSICAL CHANNEL RECONFIGURATION,
RADIO BREARER RECONFIGURATIONSETUP,
RADIO BEARER RELEASE,
TRANSPORT CHANNEL RECONFIGURATION,
URA UPDATE CONFIRM,
UTRAN MOBILITY INFROMATION,
or "new U-RNTI" IE is received in
RADIO BEARER RECONFIGURATIONSETUP.
```

INTEGRITY_PROTECTION Status = Started

8.12 Pre- & postambles for GERAN to UTRAN tests

8.12.1 Preamble for GERAN to UTRAN tests

Before running inter-RAT test cases, radio conditions should be such that the mobile has to select the cell of the intended original RAT. The following steps should be used before running GERAN to UTRAN test cases.

- 1. UTRAN cell is powered OFF. The default radio conditions for a suitable GERAN cell are used for the serving cell, as defined in 34.108 clause 6.1.7. This step is performed while the UE is still switched OFF.
- 2. UE is switched ON and performs registration and attach.
- 3. The UTRAN cell is powered ON with an RF level such that the cell is a suitable neighbour cell, using the RF conditions defined in 34.108 clause 6.1.5, so that the UE will not re-select the UTRAN cell.

8.12.2 Postamble for GERAN to UTRAN tests

- PLMN identity Not present

The following procedure is used after inter-RAT handover or cell change order test cases in case the test needs to be performed multiple times in a loop.

8.12.2.1 GERAN to UTRAN handover in CS

The test cases are defined in 51.010-1 clause 60.

Expected sequence

Step	Direction	<u>Message</u>	Comments
	UE SS		
<u>1</u>	<u><</u>	SECURITY MODE COMMAND	Integrity protection is activated.
			UTRAN security keys in PS
		OFOURITY MORE COMPLETE	domain derived from GERAN
2 3 4 5	::> <:: ::> ::>	SECURITY MODE COMPLETE UTRAN MOBILITY INFORMATION	PPC
3/1	<u><</u>	UTRAN MOBILITY INFORMATION CONFIRM	RRC RRC
5	>	ROUTING AREA UPDATE REQUEST	GMM - Update type = 'RA
		TOO THO THE TOT BY TE REGISTE	updating'. Not performed by CS
			only mobile.
<u>6</u>	<u><</u>	ROUTING AREA UPDATE ACCEPT	GMM - P-TMSI is included
6 <u>7</u> 8	< >	ROUTING AREA UPDATE COMPLETE	
<u>8</u>			The call is terminated. SS
		RRC CONNECTION REQUEST	releases the RRC connection.
<u>9</u>	<u>></u>	RKC CONNECTION REQUEST	RRC – establishment cause = 'registration'
<u>10</u>	<	RRC CONNECTION SETUP	RRC
11	>	RRC CONNECTION SETUP COMPLETE	RRC
12	< > >	ROUTING AREA UPDATE REQUEST	CS/PS mobiles: GMM – Update
			type" = 'combined RA/LA
			updating' or 'combined RA/LA
			updating with ISMI Attach'
			Note: CS only mobiles will
13		SECURITY MODE COMMAND	perform a normal LAU Integrity protection is activated.
13 14 15	< > < >	SECURITY MODE COMPLETE	integrity protection is activated.
15	<u></u>	ROUTING AREA UPDATE ACCEPT	P-TMSI is included
16	>	ROUTING AREA UPDATE COMPLETE	
<u>17</u>			The SS releases the RRC
			connection.
<u>18</u>			UE is powered OFF

Specific message contents

UTRAN MOBILITY INFORMATION message:

Use the same message sub-type found in TS 34.108, clause 9, with the following exceptions:

Information Element	<u>Value/remark</u>
CN information info	

SECURITY MODE COMMAND message:

Use the same message sub-type found in TS 34.108, clause 9, with the following exceptions:

Information Element	<u>Value/remark</u>		
<u>Ciphering mode info</u>	Not present		

All remaining Specific message contents shall be referred to 34.108 clause 9 "Default Message Contents of Layer3 Messages for Layer 3 Testing".

8.12.2.2 GERAN to UTRAN cell change in PS (in PMM-CONNECTED)

These test cases are defined in 51.010-1 clause 42.4.7.

Expected sequence

Step	Direction	<u>Message</u>	Comments
	UE SS		
<u>1</u>	<u>></u>	ROUTING AREA UPDATE REQUEST	GMM - Update type =
			'Combined RA / LA updating' or
			'combined RA/LA updating with
			ISMI Attach 'for CS/PS mobiles,
			and 'RA updating' for PS only
			mobiles.
			Follow-on request is made.
<u>2</u>	<u><</u>	SECURITY MODE COMMAND	Integrity protection is activated,
			UTRAN security keys in PS
		OFOURTY MODE COMPLETE	domain derived from GERAN
3	<u>></u>	SECURITY MODE COMPLETE	CMANA D TMOLES in already of
3 4 5	<u><</u>	ROUTING AREA UPDATE COMPLETE	GMM - P-TMSI is included
<u>5</u>	<u>></u>	ROUTING AREA UPDATE COMPLETE	CC releases the BBC
			SS releases the RRC
			connection
1	1		UE is powered OFF.

B.1.1 BasicM test suite parameter declarations

The following parameters are common to all ATSs.

Table B.1: BasicM PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_PDP_IP_AddrInfoDCH	A string parameter that identifies the MT in the address space applicable to the PDP for DCH.	IA5String	"200.1.1.80"	
px_PDP_IP_AddrInfoFACH	A string parameter that identifies the MT in the address space applicable to the PDP for FACH.	IA5String	"200.1.1.90"	
px_AuthAMF	Authentication Management Field (16 bits). The value shall be different from '1111 1111 1111 1111'B (AMFresynch).	BITSTRING	See note 2	
px_AuthK	Authentication Key (128 bits)	BITSTRING	0101111001001 0101011001101 011000100100	
px_AuthN	Value of n to initialize tcv_Auth_n (length of extended response) min 31, max 127 (3GPP TS 34.108 [Error! Reference source not found.] clause 8.1.2)	INTEGER	127	
px_AuthRAND	Random Challenge (128 bits)	BITSTRING	'0101010101' B	
px_CC_CallDiallingDigits	Dialling digits used to initiate a CC MO call (used with the AT dial D command).	IA5String	"0123456902"	

Parameter name	Description	Туре	Default value	Supported value
px_CipheringOnOff	Security mode - TRUE if ciphering is	BOOLEAN	TRUE	•
px_CiprieringOnOn	applicable	BOOLEAN	IKUE	
px_CN_DomainTested	CN domain to be tested. This	CN_DomainI		
	parameter is used in test cases that handle both PS and CS domains.	dentity	cs_domain	
px FDD OperationBand	Operation band of test	INTEGER	1	
px_FRESH	Value for FRESH	Fresh	See note 1	
px IMEI Def	Default IMEI value	HEXSTRING		
px_IMEISV_Def	Default IMEISV value	HEXSTRING		
px_IMSI_Def	Default IMSI value	HEXSTRING	'0010101234560 63'H	
px_IMSI_Diff	Different IMSI from the IMSI stored in the USIM	HEXSTRING	'0010106543210 63'H	
px_PriScrmCode	Primary scrambling code	PrimaryScra mblingCode	100	
px_PTMSI_Def	default PTMSI	OCTETSTRI NG	'12345678'O	
px_PTMSI_SigDef	default PTMSI signature (3 octets, 3GPP 24.008 [Error! Reference source not found.], clause 10.5.5.8).	OCTETSTRI NG	'AB1234'O	
px_RAT	This parameter is used to specify which radio access technology is being used for the current test execution. Valid values: fdd and tdd	RatType	fdd	
px_RRC_CS_ServTested	CS service to be tested for RRC test cases.	RRC_ServTe sted	•	
px_RRC_PS_ServTested	PS service to be tested for RRC test cases.	RRC_ServTe sted	•	
px_SRNC_Id	SRNC Id	SRNC_Identi ty	0001'B	
px_SRNC_IdDiff	Different value for SRNC Id than in px_SRNCId	SRNC_Identi ty	0010'B	
px_SRNTI	S RNTI	S_RNTI	'0000 0000 0000 0000 0001'B	
px_SRNTI_Diff	Different value for S RNTI than in px_SRNTI	S_RNTI	'0000 0000 0000 0000 0010'B	
px_TCellA	TCell value for cell A	Tcell	0	
px_TCellB	TCell value for cell B	Tcell	512	
px_TCellC	TCell value for cell C	Tcell	1536	
px_TCellD	TCell value for cell D	Tcell	321	
px_TCellE	TCell value for cell E	Tcell	833	
px_TCellF	TCell value for cell F	Tcell	6577	
px_TCellG	TCell value for cell G	Tcell	7253	
px_TCellH px_TMSI_Def	TCell value for cell H Default TMSI	Tcell OCTETSTRI	4351 '12345678'O	
•		NG		
px_UARFCN_D_Mid	Mid Range downlink UARFCN value	INTEGER	10700	
px_UARFCN_D_Low	Low Range downlink UARFCN value	INTEGER	10563	
px_UARFCN_D_High	High Range downlink UARFCN value	INTEGER	10837	
px_UARFCN_U_High	High Range uplink UARFCN value. This value shall be set based on the operation band supported.	INTEGER	9887	
px_UARFCN_U_Low	Low Range uplink UARFCN value. This value shall be set based on the operation band supported.	INTEGER	9613	
px_UARFCN_U_Mid	Mid Range uplink UARFCN value. This value shall be set based on the operation band supported.	INTEGER	9750	
px_UE_OpModeDef	Default UE operation mode (either opModeA or opModeC). (For most UEs this corresponds class-A or class-C, and can not be changed by the user)	UE_Operatio nMode	opModeA	
px_UL_ScramblingCode	UL scrambling code value to be used	UL_Scrambli	0	
	by UE.	ngCode		
px_UTRAN_GERAN	This parameter is used to specify for	Region	"UTRAN and	

Parameter name	Description	Туре	Default value	Supported value
	which environment region the system information blocks are broadcast in the test execution. Valid values: "UTRAN only" and "UTRAN and GERAN".		GERAN"	
px_DeltaSS_DelayTime	Tdelta value (refer to 34.108 clause 4.2.3) in ms.	INTEGER	55ms	

NOTE 1: No default value can be proposed (Manufacturer defined value).

NOTE 2: No default value can be proposed, because not enough information is available in 3GPP TS 34.109 [Error!

Reference source not found.] clause 8.1.2.

F.5 USIM

Please insert the USIM card, with information given in table < Test Case NUMBER >

Please insert the USIM card, with Type A EFACC in < Test Case>

Please insert the USIM card, with Type B EFACC in <Test Case>

Please remove the USIM card from the UE

Please check if the Memory Capacity Exceeded Flag has been set on the USIM simulator

Please check if the Memory Capacity Exceeded Flag has been reset on the USIM simulator

Please connect the USIM simulator to the UE

Only used in SMS ATS.

Please check whether the USIM simulator indicates an attempt made by the ME to store the short message in the USIM and returns the status response 'OK' ('90 00')

Only used in SMS ATS.

Please check whether the USIM simulator indicates an attempt made by the ME to store the short message in the USIM and returns the status response 'Memory Problem' ('92 40')

Only used in SMS ATS.

Please remove the USIM card and then insert a new one

Please insert Test USIM programmed with Access Class : <ACCESSCLASS>

- Only used in SMS ATS.

Please insert the USIM card of type B into the UE

Please insert 2nd SIM card with short IMSI

Please insert the USIM card into the UE