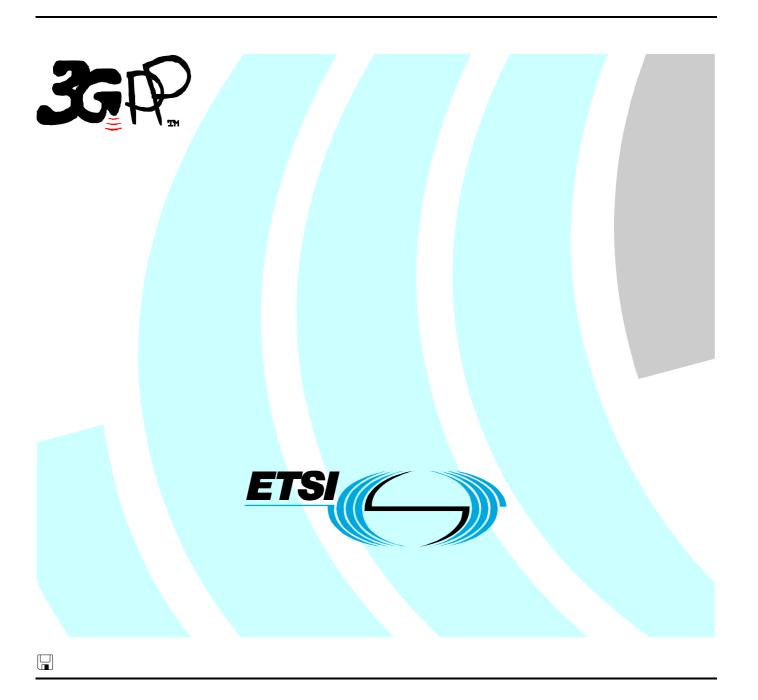
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Part 3: Abstract test suites (ATSs)
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Contents

Intell	lectual Property Rights	2
Forev	word	2
Forev	word	13
Introd	duction	13
1	Scope	14
2	References	14
3	Definitions and abbreviations.	17
3.1	Definitions	
3.2	Abbreviations	
4	Requirements on the TTCN development	17
5	ATS structure	
5.1	Modularity	
5.1.1	Module structure	
5.1.2	Contents of the modules	
5.1.2	Example of a working platform	
5.1.5		
6	Test method and testing architecture	
6.1	Test method	
6.2	Testing architecture	
6.2.1	Lower Tester (LT)	
6.2.2	Configuration and initialization	
6.2.3	Upper Tester (UT)	
6.2.4	TTCN	
6.2.5	Model extension	
6.2.6	Multiplexing of RLC services	
6.3	NAS test method and architecture	
6.3.1 6.3.2	Test configuration	
6.3.2 6.4	RRC and RAB test method and architecture	
6.4.1	Test configuration	
6.4.2	RAB test method.	
6.4.2.1		
6.4.2.		
6.5	RLC test method and architecture	
6.5.1	Testing architecture	
6.5.2	Test method	
6.5.2.		
6.5.2.2		
6.6	SMS test method and architecture	
6.6.1	SMS CS test method and architecture	33
6.6.2	SMS PS test method and architecture	33
6.6.3	SMS Cell broadcasting test method and architecture	33
6.7	MAC test method and architecture	33
6.7.1	Testing architecture	33
6.7.2	Test method	34
6.7.2.	E Company of the Comp	
6.7.2.2	_	
6.8	BMC test method and architecture	36
6.8.1	BMC test architecture	
6.8.2	BMC test method	
6.9	PDCP test	
6.9.1	PDCP test architecture	39

6.9.2	PDCP test method	
	Multi-RAT Handover Test Model	
6.10.1	Overview	
6.10.2	ASP function description	41
6.10.2.1	Identities	
6.10.2.2	Cell configuration and control	
6.10.2.3	L1 (GERAN) configuration and control	
6.10.2.3.1	Basic physical channel configuration	
6.10.2.3.2	Multislot configuration for circuit or packet switched channels	
6.10.2.3.3	Frame in the near future	43
6.10.2.3.4	L1 header	
6.10.2.4	L2 configuration and control	
6.10.2.4.1	Don't response to some handover access bursts	
6.10.2.4.2	No UA reply to SABM	
6.10.2.5	System Information sending	43
6.10.2.6	Paging	
6.10.2.7	Generic procedures for GPRS signalling	
6.10.2.7.1	GPRS generic attach procedures and ciphering mode control	
6.10.2.7.2	Cell change order within a TBF	
6.10.2.8	Generic configuration procedure for GSM ciphering mode control	
6.10.2.9	L H bits convention and bit padding in DL	
6.10.2.9.1	GERAN DL RLC/MAC message bit padding	
6.10.2.9.2	GSM DL message spare padding	
6.10.2.9.3	L H convention in rest octets of GSM DL messages	
6.10.2.9.4	Spare Bits	
6.10.2.9.5	GSM System Information messages on SACCH	
6.10.2.9.6	GSM Measurement Information messages on SACCH	
	DCH-DSCH model (R99 or Rel-4)	
	DCH with HS-DSCH (MAC-hs) model (FDD, Rel-5 or later)	
	DCH with HS-DSCH model for 1.28 Mcps TDD (Rel-5 or later)	
	DCH with HS-DSCH (MAC-ehs) model (FDD, Rel-7 or later)	
	HS-DSCH (MAC-hs/ehs) model (FDD, Rel-7 or later)(No DCH Associated)	
	E-DCH model (Rel-6 or later)	
6.14	MBMS model (Rel-6 or later)	
6.14.1	MBMS RLC test model	
6.14.1.1	RLC test model for MTCH test	
6.14.1.2	RLC test model for MCCH test	63
7 PC	O and ASP definitions	63
	NAS PCO and ASP definitions	
7.1.1	NAS PCO Definitions	
7.1.2	Primitives used at Dc PCO	
	Ut PCO and ASP definitions	
7.2.1	Ut PCO Declarations	
7.2.2	Primitives used at Ut PCO	
	RRC PCO and ASP definitions	
7.3.1	AM/UM/TM PCO and ASP definitions	
7.3.1.1	SAP and PCO for data transmission and reception	
7.3.2	Control PCO and ASP	
7.3.2.1	SAP and PCO for control primitives transmission and reception	
7.3.2.2	Control ASP Type Definition	
7.3.2.2.1	CPHY_AICH_AckModeSet	68
7.3.2.2.2	CPHY_Cell_Config	
7.3.2.2.3	CPHY_Cell_Release	69
7.3.2.2.3a	CPHY_Cell_TimingAdjust	
7.3.2.2.3b	CPHY_Detect_TFCI	
7.3.2.2.4	CPHY_Ini	71
7.3.2.2.5	CPHY_Cell_TxPower_Modify	71
7.3.2.2.6	CPHY_Frame_Number	72
7.3.2.2.6a	CPHY_SFN (Rel-6 or later)	72
7.3.2.2.6b	CPHY_MBMS_MICH_q (Rel-6 or later)	73
7.3.2.2.6c	CPHY MBMS NI (Rel-6 or later)	

7.3.2.2.7	CPHY_Out_of_Sync	77
7.3.2.2.8	CPHY_PRACH_Measurement	78
7.3.2.2.9	CPHY_RL_Modify	79
7.3.2.2.10	CPHY_RL_Release	
7.3.2.2.11	CPHY_RL_Setup	
7.3.2.2.12	CPHY_Sync	
7.3.2.2.12a	CPHY_HS_DPCCH_AckNack (Rel-5 or later)	
7.3.2.2.12b	CPHY_HS_DPCCH_CQI (Rel-5 or later)	
7.3.2.2.12c	CPHY_HS_DSCH_CRC_Mode (Rel-5 or later)	
7.3.2.2.13	CPHY_TrCH_Config	
7.3.2.2.14a	CPHY_UL_PowerModify	
7.3.2.2.14	CPHY_TrCH_Release	
7.3.2.2.15	CMAC_BMC_Scheduling	
7.3.2.2.16	CMAC_Ciphering_Activate	
7.3.2.2.16a	CMAC_FACH_MeasOccas	
7.3.2.2.17	CMAC_Config	
7.3.2.2.17a	CMAC_MAChs_MACehs_TFRCconfigure (Rel-5 or later)	
7.3.2.2.17aa	CMAC_MACehs_HS_SCCH_Orders (Rel-5 or later)	
7.3.2.2.17b	CMAC_MACe_Config (Rel-6 or later)	
7.3.2.2.17c	CMAC_MACe_NodeB_CellMapping (Rel-6 or later)	
7.3.2.2.17d	CMAC_MACes_Config (Rel-6 or later)	
7.3.2.2.17e	CMAC_MACe_AG (Rel-6 or later)	
7.3.2.2.17f	CMAC_MACe_AckNack (Rel-6 or later)	
7.3.2.2.17g	CMAC_MACe_E_TFC_Restriction (Rel-6 or later)	
7.3.2.2.17h	CMAC_MACe_RG (Rel-6 or later)	
7.3.2.2.17ha	CMAC_MACe_SI_IND	
7.3.2.2.17i 7.3.2.2.17j	CMAC_MACes_SI_IND	
7.3.2.2.17j 7.3.2.2.17k	CMAC_MACes_SI_Config (Rel-6 or later)	
7.3.2.2.17k	CMAC_MBMS_Confignitio (Ref-6 of fater)	
7.3.2.2.19	CMAC_Restriction	
7.3.2.2.20	CMAC_Restriction CMAC_SecurityMode_Config	
7.3.2.2.21	CMAC_SequenceNumber	
7.3.2.2.22	CMAC_SYSINFO_Config	
7.3.2.2.22a	CRLC_Bind_TestData_TTI	
7.3.2.2.22b	CRLC_BindTestDataInOneMAChs_MACehs_PDU (Rel-5 or later)	
7.3.2.2.23	CRLC_Ciphering_Activate	
7.3.2.2.24	CRLC_Config	
7.3.2.2.25	CRLC_Integrity_Activate	
7.3.2.2.26	CRLC_Integrity_Failure	
7.3.2.2.26a	CRLC_MAC_I_Mode	125
7.3.2.2.26b	CRLC_NotAckNxtRxSDU	126
7.3.2.2.26c	CRLC_ProhibitRLC_Ack	126
7.3.2.2.27	CRLC_Resume	
7.3.2.2.27a	CRLC_RRC_MessageSN	127
7.3.2.2.28	CRLC_SecurityMode_Config	128
7.3.2.2.28a	CRLC_SetRRC_MessageSN	
7.3.2.2.28b	CRLC_Set_Count_I	
7.3.2.2.29	CRLC_SequenceNumber	
7.3.2.2.29a	CRLC_SendContinuousData_TTI	
7.3.2.2.30	CRLC_Status	
7.3.2.2.31	CRLC_Suspend	
7.3.2.2.31a	CRLC_MTCH_Scheduling (Rel-6 or later)	
7.3.2.2.32	CBMC_Config	
7.3.2.2.32b	DEC_PERbitstring	
7.3.2.2.32c	ENC_PERbitstring	
7.3.2.2.33	RLC_TR_DATA	
7.3.2.2.34	RLC_AM_DATA	
7.3.2.2.34a	RLC_UM_ACCESSinfo (Rel-6 or later)	
7.3.2.2.34b	RLC_UM_CriticalMCCHMsg (Rel-6 or later)	
7.3.2.2.34c 7.3.2.2.35	RLC_TR_SeqOfRlcPdusRLC_UM_DATA	
1.3.4.4.33	KLC_UM_DATA	139

7.3.2.2.3	35a RLC_UM_MSCH_Msg (Rel-6 or later)	139
7.3.2.2.3		
7.3.2.3	Specific ASP and IE definitions for 1.28 Mcps TDD (Rel-4 or later)	
7.3.2.3.1	- F · · · · · · · · · · · · · · · · · ·	
7.3.2.3.2	1	
7.3.3	TTCN primitives	
7.3.3.1	UTRAN TTCN primitives	
7.3.4	GERAN PCO and ASP definitions	
7.3.4.1	PCO Type definitions	
7.3.4.1.1		
7.3.4.1.2		
7.3.4.2	PCO definitions	
7.3.4.2.1	1	
7.3.4.2.2	1	
7.3.4.3	GERAN ASP Definitions	
7.3.4.3.1	1	
7.3.4.3.2	r r r r r r r r r r r r r r r r r r r	
7.3.5	A-GPS Upper tester, PCO and ASP definitions	
7.3.5.1	Upper tester	
7.3.5.2	SV PCO	
7.3.5.3	A-GPS Primitives	
7.3.5.3.1		
7.3.5.3.2	J1	
7.3.6	ROHC test model and ASP	
7.3.6.1	ROHC test method	
7.3.6.2	ASP and PCO for control primitives transmission and reception	
7.3.6.2.1		
7.3.6.2.2	= 6	
7.3.6.2.3		
7.3.6.3	ASP and PCO for data transmission and reception	
7.3.6.3.1		
7.3.6.3.2	-	
7.3.6.3.3		
7.3.7	Handling RLP for CS non-transparent data	
7.3.7.1	UTRAN cell	
7.3.7.2	GERAN cell	
	d PCO for control primitives	
ASP and	d PCO for data transmission and reception	192
8 I	Design Considerations	194
8.1	Channel mapping	
8.2	Channel and RB identity	
8.2.1	Physical channels	
8.2.2	Transport channels	200
8.2.2.1	Support of Default Configurations	
8.2.3	Logical Channels	201
8.2.4	Radio bearers	201
8.2.5	Scrambling and channelization codes	203
8.2.6	MAC-d	207
8.2.6.1	MAC-d configuration examples	207
8.2.7	Configuration of compressed mode	208
8.2.7.1	UE Side	208
8.2.7.2	SS Side	208
8.2.8	Use of U-RNTI and C-RNTI	209
8.3	Channels configurations	209
8.3.1	Configuration of Cell_FACH	209
8.3.2	Configuration of Cell_DCH_StandAloneSRB	210
8.3.3	Configuration of Cell_DCH_Speech	
8.3.4	Configuration of Cell_DCH_64kCS_RAB_SRB	
8.3.5	Configuration of Cell_DCH_57_6kCS_RAB_SRB	
8.3.6	Configuration of Cell_RLC_DCH_RAB	
8.3.7	Configuration of Cell FACH BMC	215

8.3.8	Configuration of PS Cell_DCH_64kPS_RAB_SRB and Cell_PDCP_AM_RAB	216
8.3.9	Configuration of Cell_Two_DTCH	217
8.3.10	Configuration of Cell_Single_DTCH (CS)	217
8.3.11	Configuration of PS Cell_PDCP_UM_RAB	218
8.3.12	Configuration of PS Cell_PDCP_AM_UM_RAB	219
8.3.13	Configuration of Cell_2SCCPCH_BMC	
8.3.14	Configuration of Cell_Four_DTCH_CS_PS, Cell_Four_DTCH_PS_CS	
8.3.15	Configuration of Cell_Two_DTCH_CS_PS, Cell_Two_DTCH_PS_CS	
8.3.16	Configuration of Cell_Four_DTCH_CS	
8.3.17	Configuration of Cell_DCH_MAC_SRB	
8.3.18	Configuration of Cell_FACH_MAC_SRB	
8.3.19	Configuration of Cell_FACH_MAC_SRB0	
8.3.20	Configuration of Cell_FACH_2SCCPCH_StandAlonePCH	227
8.3.21	Configuration of PS Cell_DCH_2AM_PS	
8.3.22	Configuration of PS Cell_DCH_2_PS_Call	
8.3.23	Configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg1	
8.3.24	Configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg2	
8.3.25	Configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH	
8.3.26	Configuration of PS Cell_DCH_DSCH_PS_RAB	
8.3.27	Configuration of Cell_DCH_DSCH_CS_PS	
8.3.28	Configuration of Cell_FACH_2SCCPCH_StandAlonePCH_2a	
8.3.29	Configuration of Cell FACH 3 SCCPCH 4 FACH 2a Cnfg1	
8.3.30	Configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2	
8.3.31	Configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a	
8.3.32	Configuration of Cell_DCH_HS_DSCH (Rel-5 or later)	
8.3.33	Configuration of cell_One_DTCH_HS_DSCH_MAC (Rel-5 or later)	
8.3.33a	Configuration of cell_Three_DTCH_1Q_HS_DSCH_MAC (Rel-7 or later)	
8.3.33b	Configuration of cell_Three_DTCH_3Q_HS_DSCH_MAC (Rel-7 or later)	
8.3.33c	Configuration of Cell_E_HS_SRB_MAC_TM_RAB (Rel-7 or later)	
8.3.34	Configuration of Cell_2UM_3AM_DCH_HS_DSCH (Rel-5 or later)	
8.3.35	Configuration of Cell_DCH_Speech_WAMR (Rel-5 or later)	
8.3.36	Configuration of PS Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS (Rel-5 or later)	
8.3.37	Configuration of PS Cell_Two_DTCH_HS_CS (Rel-5 or later)	
8.3.38	Configuration of PS Cell_DCH_64kPS_RAB_SRB_HS (Rel-5 or later)	
8.3.39	Configuration of PS Cell_DCH_2AM_HS_DSCH (Rel-5 or later)	
8.3.40	Configuration of Cell_Three_DTCH_5SRB (Rel-5 or later)	
8.3.41	Configuration of Cell_Five_DTCH_CS_HS (Rel-5 or later)	
8.3.42	Configuration of Cell_DCH_E_HS (Rel-6 or later)	
8.3.43	Configuration of Cell_DCH_dlSRB_E_HS (Rel-6 or later)	
8.3.44	Configuration of Cell_E_HS (Rel-6 or later)	
8.3.45	Configuration of PS Cell_Four_DTCH_E_HS_CS and Cell_Four_DTCH_CS_E_HS (Rel-6 or later)	
8.3.46	Configuration of Cell_2DCH_2AM_dlSRB_E_HS (Rel-6 or later)	
8.3.47	Configuration of Cell_E_HS_MAC_TM_RAB (Rel-6 or later)	
8.3.48	Configuration of Cell_2DCH_MAC_2TM_dlSRB_E_HS (Rel-6 or later)	
8.3.49	Configuration of Cell_2DCH_1AM_1UM_E_HS (Rel-6 or later)	
8.3.50	Configuration of Cell_3DCH_2AM_1UM_E_HS (Rel-6 or later)	
8.3.51	Configuration of Cell_Four_DTCH_CS_E_HS_5SRB (Rel-6 or later)	
8.3.52	Configuration of Cell_Four_DTCH_HS_5SRB (Rel-5 or later)	
8.3.53	Configuration of Cell_E_HS_StandAloneSRB/ Cell_E_HS_StandAloneSRB_NoConn (Rel-6 or	200
0.5.55	later)	255
8.3.54	MBMS channel configuration (Rel-6 or later)	
8.3.54.1	Configuration cell_MBMS_MCCH (Rel-6 or later)	
8.3.54.2	Configuration cell_MBMS_MCCH_One_MTCH (Rel-6 or later)	
8.3.55	Configuration of PS Cell_DCH_64kPS_AM_RAB	
8.3.56	Configuration of PS Cell_MBMS_PTPRB	
8.3.57	Configuration of PS Cell_MBMS_PTPRB_AM	
8.3.58	Configuration of Cell_FACH_MCCH_SRB / Cell_FACH_MCCH_NoDedicated	
8.3.59	Configuration of Cell_DCH_MCCH_PSConfiguration of Cell_DCH_MCCH_PS	
8.3.60	Configuration of PS Cell_DCH_1AM_2AM_HS_DSCH (Rel-6 or later)	
8.3.00	System information blocks scheduling	
8.4.1	Grouping SIBs for testing	
8.4.1 8.4.2	SIR configurations	200 261

8.4.3	Test SIB default schedule	261
8.4.3.1	Test SIB schedule for idle mode, measurement and Inter-RAT UTRAN to GERAN test cases	261
8.4.4	Test SIB special schedule	
8.4.4.1	Test SIB schedule for two S-CCPCH or two PRACH	
8.4.4.2	Test SIB schedule for Inter-Rat Handover from GERAN to UTRAN Test	
8.4.5	Handling the transmission of SIB	
8.4.5.1	Delivery of System Information content	
8.4.5.2	Scheduling of system Information blocks	
8.4.5.3	Example of usage	
8.5	Security in testing	
8.5.1	Authentication	
8.5.2	Ciphering	
8.5.3	Integrity	
8.5.4	Test security scenarios	
8.5.4.1	Start security function	
8.5.4.1.1	Start integrity protection without start of ciphering	
8.5.4.1.2	Start both integrity protection and ciphering	
8.5.4.1.3 8.5.4.2	VoidRB setup	
8.5.4.2.1	AM / UM RB	
8.5.4.2.1	TM RB	
8.5.4.2.2 8.5.4.3	RB Reconfiguration for AM RAB modification of RLC size	
8.5.4.3.1	"RB mapping info" in CELL UPDATE CONFIRM	
8.5.4.3.2	"RB mapping info" in RB RECONFIGURATION / RELEASE	
8.5.4.4	Security modification	
8.5.4.4.1	Integrity started, ciphering not started	
8.5.4.4.2	Integrity and ciphering started	
8.5.4.5	SRNS relocation	
8.5.4.5.1	Void	
8.5.4.5.2	Presence of "Integrity protection mode info" but absence of "Ciphering mode info"	
8.5.4.5 . 3	Presence of "Integrity protection mode info" and "Ciphering mode info" IE	
8.5.4.6	CELL/URA update	
8.5.4.6.1	RLC re-establish (RB2, RB3, RB4)	
8.5.4.6.2	RLC re-establish (RAB)	
8.5.4.7	Inter RAT handover to UTRAN	
8.5.4.7.1	ciphering has not been activated	278
8.5.4.7.2	ciphering has been activated	
8.5.4.8	Hard handover	279
8.5.5	Test USIM configurations	280
8.5.5.1	Test USIM for Idle mode tests	280
8.6	Downlink power setting in SS	282
8.7	Test suite operation definitions	
8.7.1	Test suite operation definitions in the common modules	
8.7.1.1	Specific test suite operation for RLC defined in BasicM	
8.7.1.1.1	Pseudocode in a C like notation	
8.7.2	Specific test suite operation definitions for Multi RAT Handover testing	
8.7.3	Specific test suite operation for Multi RAB testing	
8.7.4	Specific test suite operation for InterSystem Handover testing	
8.7.5	Specific test suite operation for RAB_HS testing	
8.7.6	Specific test suite operation for Intersystem HS Testing	
8.7.7	Specific test suite operation for A-GPS testing	
8.7.8	Specific test suite operation for E-DCH Testing	
8.7.9	Specific test suite operation for E-DCH/HS-ENH and MBMS testing	
8.8 0 0 1	AT command lists in ATSo	
8.8.1	AT commands in IR II ATS:	
8.8.1.1	AT commands in IR_U ATS:	
8.8.1.2	AT commands in MAC and RLC ATS:	
8.8.1.3	AT commands in NAS ATS:	
8.8.1.4 8.8.1.5	AT commands in RRC ATS:	
8.8.1.5 8.8.1.6	AT commands in RRC ATS: AT commands SMS ATS:	
8.8.1.6 8.8.1.7	AT commands in HSDPA ATS (Rel-5 or later):	31 <i>.</i> 313

8.8.1.8	AT commands for E-DCH testing (Rel-6 or later) and HS-ENH testing (Rel-7 or later)	
8.8.2	AT Command Handling in TTCN	
8.8.2.1	AT Command Interface	
8.8.2.2	AT Command Dialogues	315
8.8.2.3	AT Response Types	315
8.8.2.3.	1	
8.8.2.3.2	Name String	315
8.8.2.3.		
8.8.2.4	AT Command Parameters And Options	315
8.9	Bit padding	316
8.9.1	Requirements for implementation	316
8.10	Test PDP contexts	
8.10.1	Mapping of Quality of service and AT command for HSDPA testing	
8.10.2	Mapping of Quality of service and AT command for E-DCH testing	
8.11	DCH-DSCH Configurations	
8.11a	DCH with HS-DSCH Configurations (Rel-5 or later)	
8.11aa	HS-DSCH Configurations without DCH associated (Rel-6 or later)	
8.11b	HS-DSCH Configuration Verification	
8.11c	HS-DSCH Configurations for enhanced Cell FACH (Rel-7 or later) [Mapping CCCH/BCCH/PCCH or	
	HS-DSCH]	
8.12	Pre- and postambles for GERAN to UTRAN tests	
8.12.1	Preamble for GERAN to UTRAN tests	
8.12.2	Postamble for GERAN to UTRAN tests	
8.12.2.1		
8.12.2.2	oblair to official contract in the contract of	
8.12.2.3		
8.13	E-DCH configurations (Rel-6 or later)	
8.13.1	DPCH (SRB) and E-DCH (RAB) configuration	
8.13.1.1	~ 6 — —	
8.13.1.2	6 \	
8.13.1.3		
8.13.2	DPCH/HS-DSCH/E-DCH setup and release order	
8.13.3	Serving E-DCH cell with UL DTX Configured [Rel-7]	
8.14	Guidelines of MBMS implementations	
8.14.1	MCCH scheduling implementation	
8.14.2	MSCH scheduling and service data on MTCH	
8.14.2.1		
8.15	Cell mapping	338
Annov	A (normative): Abstract Test Suites (ATS)	220
A.1 V	Version of specifications	339
	NAS ATS	
A.2.1	Void	
A.2.2	The TTCN Machine Processable form (TTCN.MP)	342
A.3 S	SMS ATS	342
A.3.1	Void	
A.3.2	The TTCN Machine Processable form (TTCN.MP)	
	RRC ATS	
A.4.1	Void	
A.4.2	The TTCN Machine Processable form (TTCN.MP)	348
A.5 I	RLC ATS	3/12
A.5.1	Void	
A.5.1 A.5.2	The TTCN Machine Processable form (TTCN.MP)	
A.J.2	THE TICIN IVIACIBLE FIGURESSAULT TOTAL (TICIN.IVIF)	349
A.6	MAC ATS	349
A.6.1	Void	350
A.6.2	The TTCN Machine Processable form (TTCN.MP)	350
4.7 T		250
A.7 I	BMC ATS	330

A.7.1		
A.7.2	The TTCN Machine Processable form (TTCN.MP)	350
A.8	PDCP ATS	350
A.8.1		
A.8.2	The TTCN Machine Processable form (TTCN.MP)	350
A.9	RAB ATS	351
A.9.1		
A.9.2		
Δ 10	IR U ATS	35/
A.10.1	-	
A.10.2		
A 11	AGPS ATS	
A.11 A.11.1		
A.11.2		
	·	
A.12 A.12.1	HSD_ENH ATS	
A.12.1 A.12.2		
	HSU_ENH ATS	
A.13.1 A.13.2		
	MBMS ATS	
A.14.2	The TTCN Machine Processable form (TTCN.MP)	364
Anne	ex B (normative): Partial IXIT proforma	365
B.0	Introduction	
B.1	Parameter values	365
B.1.1	BasicM test suite parameter declarations	
B.1.2		
B.1.3 B.1.4		
B.1.5		
B.1.6	<u>.</u>	
B.1.7	1	
B.1.8	1	
B.1.9	1	
B.1.10 B.1.11		
В.1.11 В.1.12	<u> •</u>	
B.1.13	<u>•</u>	
B.1.14	<u>.</u>	
B.1.15	- -	
B.1.16	6 HS_ENH test suite parameters declarations	380
Anne	ex C (informative): Additional information to IXIT	381
C.1	Identification Summary	
C.2	Abstract Test Suite Summary	381
C.3	Test Laboratory	381
C.3.1	Test Laboratory Identification	
C.3.2		
C.3.3 C.3.4	•	
C.3.4 C.3.5	•	
C.3.6	C	
	Client	39/

C.4.1	Client Identification	384
C.4.2	Client Test Manager	384
C.4.3	Client Contact person	
C.4.4	Test Facilities Required	384
C.5 Sy	stem Under Test	385
C.5.1	SUT Information	
C.5.2	Limitations of the SUT	385
C.5.3	Environmental Conditions	
C.6 Aı	ncillary Protocols	387
C.6.1	Ancillary Protocols 1	
C.6.2	Ancillary Protocols 2	
Annex D	O (informative): PCTR Proforma	
Annex E	E (informative): TTCN style guide for 3GPP ATS	389
E.1 In	troduction	
E.2 E7	FR 141 rules and applicability	
E.2.1	Multiple words are separated by upper case letters at the start of each word	
E.2.2	Identifiers shall be protocol standard aligned	
E.2.3	Identifiers shall be distinguishing (use of prefixes)	
E.2.4	Identifiers should not be too long (use standard abbreviations)	
E.2.5	Test suite operations must not use global data	397
E.3 30	GPP ATS implementation guidelines	400
E.3.1	Test case groups shall reflect the TSS&TP document	
E.3.2	Test case names correspond to the clause number in the prose	
E.3.3	Use standard template for test case and test step header	
E.3.4	Do not use identical tags in nested CHOICE constructions	
E.3.5	Incorrect usage of enumerations	
E.3.6	Structured type as OCTETSTRING should not be used	
E.3.7	Wildcards in PDU constraints for structured types should not be used	
E.3.8	TSOs should be passed as many parameters as meaningful to facilitate their implementation	
E.3.9	Specification of Encoding rules and variation should be indicated	
E.3.10	Use of global data should be limited	405
E.3.11	Limit ATS scope to a single layer / sub-layer	405
E.3.12	Place system information in specially designed data structures	405
E.3.13	Place channel configuration in specially designed data structures	405
E.3.14	PICS / PIXIT parameters	405
E.3.15	Dynamic vs. static choices	
E.3.16	Definition of Pre-Ambles and Post Ambles	
E.3.17	Use test steps to encapsulate AT and MMI commands	
E.3.18	Use system failure guard timers	
E.3.19	Mapping between prose specification and individual test cases	
E.3.20	Verdict assignment	
E.3.20.1	General	
E.3.20.2	Test cases	
E.3.20.3	Test steps	
E.3.20.4	Defaults	
E.3.21	Test suite and test case variables	
E.3.22	Use of macros is forbidden.	
E.3.23	Support for future Radio Access Technologies	
E.3.24	Managing multiple representations of the same information	
E.3.24.1	Predefined types	
E.3.24.2	Simple types	
E.3.24.3	Structured types	
E.3.24.4	Conversion responsibility	
E.3.24.5	Option 1: Calling party conversions	
E.3.24.5.1	e	
E.3.24.5.2 E.3.24.6	2 Disadvantages	
D. 1.74.0	VARIOU A. VAUGU DALIV CUHVELNIOHS	4 1 1

E.3.24	4.6.1 Advantages.		413
E.3.24		ges	
E.3.25	5 Assignment using c	constraint	413
E.3.20	Guidelines for use of	of timers when tolerances are applicable	413
E.3.20	5.1 Specific situation	ons	413
E.3.20		ons	414
E.3.20	1	situation 1	414
E.3.20	1	situation 2	
E.3.20	Example of	situation 3	415
Anne	ex F (informative):	Void	416
Anne	ex G (informative):	Recommendation of an unique ICS/IXIT electro	onic exchange format417
G.1	Syntax		417
G.2	Examples		418
Anne	ex H (informative):	A-GPS ASN.1 module	419
Anne	ex I (Informative):	Guidance on test execution	428
I.1	Void		428
I.2		on different frequency bands	
I.2.1		I, XIV	
I.2.2	FDD Band XII		428
I.3	Void		428
I.4	InterRAT test execut	tion	428
Anne	ex J (informative):	Change history	429
Histo	rv		468

Foreword

This Technical Specification has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

- x the first digit:
 - 1 presented to TSG for information;
 - 2 presented to TSG for approval;
 - 3 or greater indicates TSG approved document under change control.
- y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.
- z the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The present document is part 3 of a multi-part conformance test specification for UE. The specification contains a TTCN2 design frame work and the detailed test specifications in TTCN for UE at the Uu interface.

3GPP TS 34.123-1 [1]: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".

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

3GPP TS 34.123-3: "Abstract Test Suite (ATS)" (the present document).

1 Scope

The present document specifies the protocol conformance testing in TTCN for the 3GPP User Equipment (UE) at the Uu interface.

The present document is the 3rd part of a multi-part test specification, 3GPP TS 34.123. The following TTCN test specification and design considerations can be found in the present document:

- the overall test suite structure;
- the testing architecture;
- the test methods and PCO definitions:
- the test configurations;
- the design principles, assumptions, and used interfaces to the TTCN tester (System Simulator);
- TTCN styles and conventions;
- the partial PIXIT proforma;
- the TTCN.MP and TTCN.GR forms for the mentioned protocols tests.

The Abstract Test Suites designed in the document are based on the test cases specified in prose (3GPP TS 34.123-1 [1]).

The present document is valid for UE implemented according to 3GPP Release 1999, 3GPP Release 4, 3GPP Release 5, 3GPP Release 6 or 3GPP Release 7.

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*.
 - For a Release 1999 UE, references to 3GPP documents are to version 3.x.y, when available.
 - For a Release 4 UE, references to 3GPP documents are to version 4.x.y, when available.
 - For a Release 5 UE, references to 3GPP documents are to version 5.x.y, when available.
 - For a Release 6 UE, references to 3GPP documents are to version 6.x.y, when available.
 - For a Release 7 UE, references to 3GPP documents are to version 7.x.y, when available.
- [1] 3GPP TS 34.123-1: "User Equipment (UE) conformance specification; Part 1: Protocol conformance specification".
- [2] 3GPP TS 34.123-2: "User Equipment (UE) conformance specification; Part 2: Implementation Conformance Statement (ICS) proforma specification".
- [3] 3GPP TS 34.108: "Common test environments for User Equipment (UE) conformance testing".
- [4] 3GPP TS 34.109: "Terminal logical test interface; Special conformance testing functions".

[5]	3GPP TR 21.905: "Vocabulary for 3GPP specifications".
[6]	3GPP TS 23.003: "Numbering, addressing and identification".
[7]	3GPP TS 23.101: "General UMTS architecture".
[8]	3GPP TS 24.007: "Mobile radio interface signalling layer 3; General aspects".
[9]	3GPP TS 24.008: "Mobile radio interface layer 3 specification; Core network protocols; Stage 3".
[10]	3GPP TS 24.011: "Point-to-Point (PP) Short Message Service (SMS) support on mobile radio interface".
[11]	3GPP TS 24.012: "Short Message Service Cell Broadcast (SMSCB) support on the mobile radio interface".
[12]	3GPP TS 25.214: "Physical layer procedures (FDD)".
[13]	3GPP TS 25.224: "Physical layer procedures (TDD)".
[14]	3GPP TS 25.301: "Radio interface protocol architecture".
[15]	3GPP TS 25.303: "Interlayer procedures in connected mode".
[16]	3GPP TS 25.304: "User Equipment (UE) procedures in idle mode and procedures for cell reselection in connected mode".
[16a]	3GPP TS 25.306: "UE Radio Access capabilities"
[17]	3GPP TS 25.321: "Medium Access Control (MAC) protocol specification".
[18]	3GPP TS 25.322: "Radio Link Control (RLC) protocol specification".
[19]	3GPP TS 25.323: "Packet Data Convergence Protocol (PDCP) specification".
[20]	3GPP TS 25.324: "Broadcast/Multicast Control (BMC)".
[21]	3GPP TS 25.331: "Radio Resource Control (RRC) protocol specification".
[22]	3GPP TS 27.005: "Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE-DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)".
[23]	3GPP TS 27.007: "AT command set for 3G User Equipment (UE)".
[24]	3GPP TS 27.060: "Packet domain; Mobile Station (MS) supporting Packet Switched services".
[25]	3GPP TS 33.102: "3G security; Security architecture".
[26]	3GPP TS 51.010-1: "Mobile Station (MS) conformance specification; Part 1: Conformance specification".
[27]	ETSI TR 101 666 (V1.0.0): "Information technology; Open Systems Interconnection Conformance testing methodology and framework; The Tree and Tabular Combined Notation (TTCN) (Ed. 2++)".
[28]	ITU-T Recommendation X.691 (1997) "Information technology - ASN.1 encoding rules: Specification of Packed Encoding Rules (PER)".
[29]	ISO/IEC 8824 (all parts): "Information technology - Abstract Syntax Notation One (ASN.1)".
[30]	IETF RFC 2507: "IP Header Compression".
[31]	3GPP TS 45.002: "Multiplexing and multiple access on the radio path". 3GPP TS 05.02: "Digital cellular telecommunications system (Phase 2+); Multiplexing and multiple access on the radio path".

[32]	3GPP TS 44.060: "General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol". 3GPP TS 04.60: "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); Mobile Station (MS) - Base Station System (BSS) interface; Radio Link Control/Medium Access Control (RLC/MAC) protocol".
[33]	3GPP TS 44.064: "Mobile Station - Serving GPRS Support Node (MS-SGSN) Logical Link Control (LLC) layer specification".
[34]	3GPP TS 23.038: "Alphabets and language-specific information".
[35]	3GPP TS 23.040: "Technical realization of Short Message Service (SMS)".
[36]	3GPP TS 23.041: "Technical realization of Cell Broadcast Service (CBS)".
[37]	ETSI ETR 141: "Methods for Testing and Specification (MTS); Protocol and profile conformance testing specifications; The Tree and Tabular Combined Notation (TTCN) style guide".
[38]	ETSI TR 101 101: "Methods for Testing and Specification (MTS); TTCN interim version including ASN.1 1994 support [ISO/IEC 9646-3] (Second Edition Mock-up for JTC1/SC21 Review)".
[39]	ITU-T Recommendation X.680: "Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation".
[40]	3GPP TS 25.211: "Physical channels and mapping of transport channels onto physical channels (FDD)".
[41]	ISO/IEC 9646 (all parts): "Information technology - Open Systems Interconnection - Conformance testing methodology and framework".
[42]	3GPP TS 44.006: "Mobile Station - Base Stations System (MS - BSS) Interface Data Link (DL) layer specification".
[43]	3GPP TS 44.018: "Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol". 3GPP TS 04.18: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification; Radio Resource Control (RRC) protocol".
[44]	3GPP TR 25.925: "Radio interface for Broadcast/Multicast Services".
[45]	ITU-T Recommendation O.153: "Basic parameters for the measurement of error performance at bit rates below the primary rate".
[46]	IETF RFC 1144: "Compressing TCP/IP headers for low-speed serial links".
[47]	ITU-T Recommendation V.42bis: "Data compression procedures for data circuit-terminating equipment (DCE) using error correction procedures".
[48]	ITU-T Recommendation V.44: "Data compression procedures".
[49]	3GPP TS 44.008: "Mobile radio interface layer 3 specification". 3GPP TS 04.08: "Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification".
[50]	3GPP TS 24.080: "Mobile radio interface layer 3 supplementary services specification; Formats and coding".
[51]	3GPP TS 29.002: "Mobile Application Part (MAP) specification".
[52]	ITU-T Recommendation Q.773: "Signalling System No. 7 - Transaction Capabilities Formats and Encoding".
[53]	ITU-T Recommendation X.880: "Information Technology - Remote Operations: Concepts, Model and Notation".

- [54] IETF RFC 3095: "RObust Header Compression (ROHC): Framework and four profiles: RTP, UDP, ESP, and uncompressed".
- [55] 3GPP TS 34.022: "Radio Link Protocol (RLP) for circuit switched bearer and teleservices".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 34.123-1 [1] apply.

3.2 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TS 34.123-1 [1], 3GPP TS 24.008 [9], 3GPP TS 25.331 [21] and TR 101 666 [27] apply.

4 Requirements on the TTCN development

A number of requirements are identified for the development and production of TTCN specification for 3GPP UE at Uu interface.

- 1. Top-down design, following 3GPP TS 34.123-1 [1], 3GPP TS 34.108 [3] and 3GPP TS 34.109 [4].
- 2. A unique testing architecture and test method for testing all protocol layers of UE.
- 3. Uniform TTCN style and naming conventions.
- 4. Improve TTCN readability.
- 5. Using TTCN-2++ (TR 101 666 [27]) for R99, Release 4, Release 5 and Release-6, avoid the use of the TTCN 2 features TTCN 3 does not support.
- 6. TTCN specification feasible, implementable and compilable.
- 7. Test cases shall be designed in a way for easily adaptable, upwards compatible with the evolution of the 3GPP core specifications and the future Releases.
- 8. The test declarations, data structures and data values shall be largely reusable.
- 9. Modularity and modular working method.
- 10. NAS ATS should be designed being independent from the radio access technologies.
- 11. Minimizing the requirements of intelligence on the emulators of the lower testers. Especially the functionality of the RRC emulator in the TTCN tester should be reduced and simplified, the behaviours should be standardized as the TTCN RRC test steps in the TTCN modular library.
- 12. Giving enough design freedom to the test equipment manufacturers.
- 13. Maximizing reuse of ASN.1 definitions from the relevant core specifications.

In order to fulfil these requirements and to ensure the investment of the test equipment manufacturers having a stable testing architecture for a relatively long period, a unique testing architecture and test method are applied to the 3GPP UE protocol tests.

5 ATS structure

The total TTCN specification for the UE testing is structured in a number of separate layered ATSs. The number of ATS being produced corresponds to the number of the 3GPP core specifications referred. The separation of ATSs reduces the size of ATSs. The layer-specific test preambles and test data can be confined to one test suite and parallel development of test suites can be facilitated. The separation of ATSs enables also easily to follow the evolution of the core specifications.

- NAS ATSs:
 - 1) GSM MAP L3 ATS including MM, CC, GMM, SM test groups;
 - 2) SMS ATS;
 - 3) A-GPS ATS
- AS ATSs:
 - 1) RRC ATS including Singlecell and multicell test group;
 - 2) RLC ATS;
 - 3) MAC ATS;
 - 4) BMC ATS;
 - 5) PDCP ATS;
 - 6) RAB ATS;
 - 7) IR_U ATS;
 - 8) HSD_ENH ATS (Rel-5 or later);
 - 9) HSU_ENH ATS (Rel-6 or later);
 - 10)MBMS ATS (Rel-6 or later);
 - 11) HS-ENH ATS (Rel-7 or later).

5.1 Modularity

The modular TTCN approach is used for the development of the 3GPP ATS specification work. Three modules, BasicM, RRC_M and L3M are installed.

5.1.1 Module structure

The module structure is shown in figure 1.

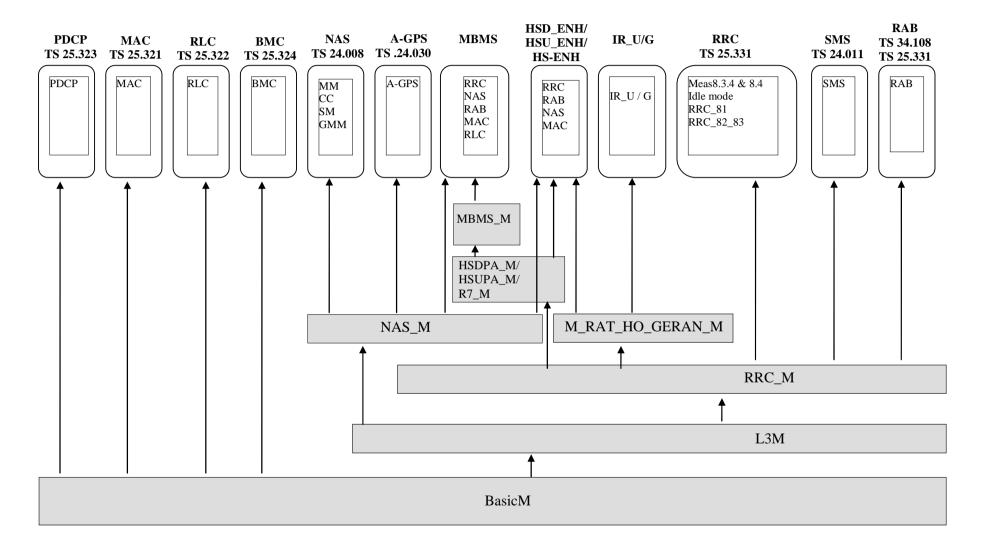


Figure 1: Module structure

The BasicM (**Basic M**odule) is a minimum module commonly for the layer 2 and layer 3 testing. The L3M (**L**ayer **3 M**odule) contains all the items to be shared by the RRC, NAS, SMS, RAB, IR_U/G, A-GPS, HSD_ENH, HSU_ENH and MBMS ATSs. NAS is applied to the NAS, A-GPS, HSD_ENH, HSU_ENH, MBMS ATSs and HS_ENH. The RRC_M is a module containing common object for RRC, RAB, IR_U/G, SMS, A-GPS, HSD_ENH, HSU_ENH, MBMS ATSs and HS_ENH.

5.1.2 Contents of the modules

The BasicM module includes objects related to the RRC, the layer 2 and the physical layer. It includes also all test steps needed by the layer 2 and layer 3 test cases for configurations and all objects related to the definition of the steps:

- Common test steps and default test steps defined as generic procedures in 3GPP TS 34.108 [3];
- RRC declarations related to the steps: types, timers, PDU types, ASP type, PCOs, TSOs, constants;
- Related ICS and IXIT parameters needed for testing and respectively defined in 3GPP TS 34.123-2 [2] and the present document;
- Defaults constraints based on the default message contents defined in 3GPP TS 34.108 [3];
- MMI PCO and ASPs;
- All TTCN objects related to the SS configuration, e.g. PCOs, declaration of the components.

The L3M module includes the NAS configuration steps and all related TTCN objects:

- Common test steps and default test steps defined as generic procedures in 3GPP TS 34.108 [3];
- NAS declarations related to these steps: types, PDU, ASP, PCOs, TSOs, constants;
- Related ICS and IXIT parameters needed for testing and respectively defined in 3GPP TS 34.123-2 [2] and the present document;
- Default constraints based on the default message contents defined in 3GPP TS 34.108 [3].

The RRC_M module includes the RRC steps common to RRC and RAB test cases and all related TTCN objects.

5.1.3 Example of a working platform

Figure 2 shows the working platform for the user that is writing the SMS test cases.

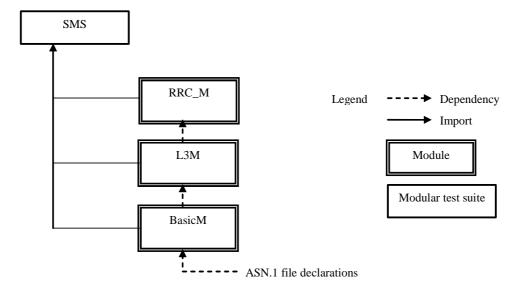


Figure 2: An example of working platform for SMS

6 Test method and testing architecture

6.1 Test method

The distributed single party test method is used for the UE testing. The lower tester configures the emulator and communicates with the UE under test via the emulator. An upper tester interfaces UE as (E)MMI.

All common parts in 3GPP TS 34.108 [3], 3GPP TS 34.109 [4] and 3GPP TS 34.123-2 [2] are developed in a TTCN library including the declarations, default constraints, preambles and postambles. They have the following characteristics:

- Very complex;
- Worked in different layers;
- Including data representing the radio parameters for SS setting and the data representing the UE capabilities (PICS parameters);
- Including the generic procedures to bring the UE into certain test states or a test mode (C-plane);
- Setting RABs at U-plane and SRBs in C-plane;
- Being used by every test cases no matter which layer the test case belongs to;
- No affect on the test verdict of PASS or FAIL.

The layer-specific test cases have the characteristics:

- relatively simple and straight forward;
- having narrow test scope and test purposes;
- test scenarios in a single layer (one PCO);
- assigning the test verdict.

6.2 Testing architecture

A unique testing architecture is shown in figure 3.

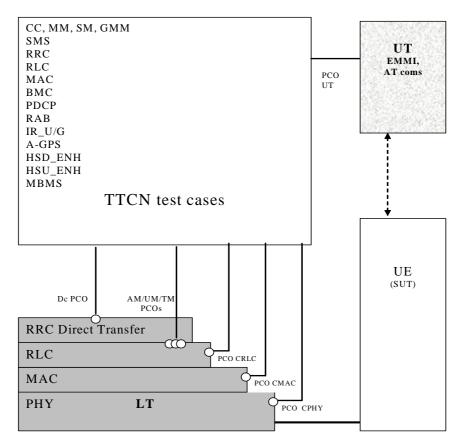


Figure 3: A unique testing architecture

6.2.1 Lower Tester (LT)

The Lower Tester (LT) provides the test means for the execution of the test cases for CC, SM, MM, GMM, SMS, RRC, RLC, MAC, PDCP, BMC, RAB, IR_U/G, A-GPS, HSD_ENH, HSU_ENH, MBMS and HS_ENH. The LT provides also the RLC, MAC and PHY emulators to communicate with the UE. The configuration and initialization of the emulators are control by the TTCN via ASPs.

6.2.2 Configuration and initialization

A number of TTCN test steps are designed for the generic setting.

- 1) Configuration of L1 of the tester, such as the cells, Physical channels and common transport channels via CPHY-PCO, configuration of MAC via CMAC-PCO and configuration of RLC layer via CRLC-PCO.
- 2) Sending system information via TR-PCO.
- 3) Establishment RRC connection via AM or UM-PCO.
- 4) Assigning a radio bearer via AM-PCO.
- 5) MM/GMM registration via Dc-PCO.
- 6) Establishment of a CS call or a PDP context via Dc-PCO.
- 7) Setting security parameters and control of integrity via CRLC- and ciphering via CRLC- and CMAC-PCO.

6.2.3 Upper Tester (UT)

An Upper Tester (UT) exists in the test system. The UT interfaces toward UE with any optional EMMI (3GPP TS 34.109 [4], clause 7). TTCN communicates with the UT by passing coordination primitives via a Ut PCO. The primitives can either contain AT commands aiming at the automatic tests, or some informal commands as MMI, in order to request the UE for certain actions and to provide simple means for observations of UE.

6.2.4 TTCN

TTCN is used as specification language based on TR 101 666 [27] (TTCN 2++). The importation of ASN.1 modules and modular TTCN are two of the most important features used in the design of the ATSs.

The TTCN test suites have been designed to maximize the portability from the language TTCN 2 to TTCN 3.

6.2.5 Model extension

If a test case needs to handle a concurrent situation two or more LTs can be configured at the same time. The following test scenarios identified may require multiple testers in the test configuration.

6.2.6 Multiplexing of RLC services

For the RRC and NAS testing, the TTCN RRC test steps (on RB1 and RB2) and the RRC emulator (on RB3 and RB4 for the NAS messages) share the same service access point (AM SAP). The RLC emulator shall provide separate message queues (buffers) for the TTCN RRC test steps and the RRC emulator for the TTCN NAS test cases, according to the signalling radio bearer identities.

6.3 NAS test method and architecture

6.3.1 Test configuration

The NAS test method is shown in figure 4.

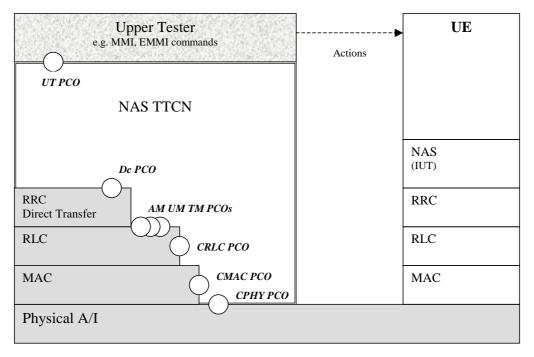


Figure 4: NAS testing architecture

The single layer distributed test method is used.

The Point of Control and Observation (PCO) are defined as the Dc (Dedicated control) SAP. The NAS test verdicts are assigned depending on the behaviours observed at the PCO.

The TTCN tester provides the NAS TTCN test cases and steps with a simple RRC direct transfer function which buffers the NAS PDU data, converts the data from the NAS TTCN table format into ASN.1, or in reverse way, and delivers all lower layer services of AM-SAP for RB3 and RB4.

The NAS TTCN test cases make also intensively use of the RRC TTCN test steps, in order to:

- Configure, initialize and control the L2 emulator;
- Initialize the UE for testing.

The RRC test steps, which are called by the NAS test cases or steps, interface with the RLC PCOs (UM, AM and TR), the control PCOs CRLC, CMAC and CPHY.

The General control (Gc) SAP and the Notification (Nt) SAP are not applied. Messages exchanged via these SAPs will be replaced with the corresponding RRC TTCN test steps.

The Ut PCO (so called logical interface [4]) is served as the interface to the UE EMMI to allow a remote control of operations, which have to be performed during execution of a test case such as to switch the UE on/off, initiate a call, etc.

6.3.2 Routing UL NAS massages in SS

The UL NAS messages are embedded in RRC messages INITIAL / UL DIRECT TRANSFER. In the UE test, the received UL NAS messages can either be routed to the Dc PCO and verified at the NAS message level, or routed to AM PCO and verified at the RRC message level.

- 1) RBid =3 at the SS side indicates that the UL NAS high priority messages to be routed to Dc PCO. RB3 applies to RRC_DataInd/Req.
- 2) RBid=-16 at the SS side indicates the received messages to be routed to RLC AM PCO. RB-16 applies to RLC_DataInd/Req.

The RB3 and RB-16 do not coexist. The TTCN writer uses the MAC and RLC reconfigurations to re-map the RB and the corresponding logical channels. If RB3 has been configured, but a test case needs to re-map the logical channel from RB3 to RB-16 the following way is to replace RB3 with RB-16.

- CMAC_CONFIG_REQ (reconfiguration, RB-16).

Re-mapping on RB-16 which appears in the transport channel and logical channel mapping list.

- CRLC_CONFIG_REQ (reconfiguration, RB-16).

RB-16 appears in the routing info, in order to replace the original mapping on RB3.

Mapping from RB-16 to RB3 is done in the reverse way.

6.4 RRC and RAB test method and architecture

6.4.1 Test configuration

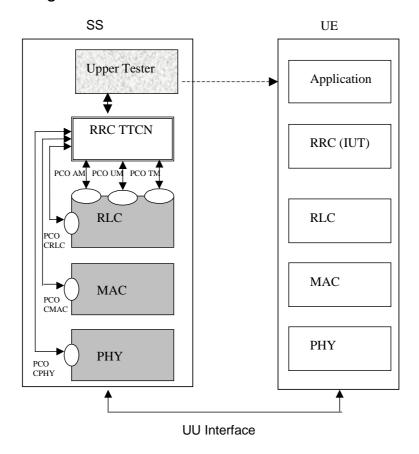


Figure 5: RRC testing architecture

The single layer distributed test method is used.

The PCOs are defined as the AM (Acknowledged Mode), UM (Unacknowledged Mode) and TM (Transparent Mode) SAPs. The RRC test verdicts are assigned depending on the behaviours observed at the PCO. The RRC TTCN interface also with the control PCOs CRLC, CMAC and CPHY, for the configuration, initialization and control of the System Simulator.

The RRC TTCN test cases also make use of the NAS TTCN test steps in order to:

- Bring UE to Idle state;
- Bring UE to state U10.

The NAS test steps, which are called by the RRC test cases or steps, interface with the Dc PCO.

The Ut PCO (so called logical interface [4]) is served as the interface to the UE EMMI to allow a remote control of operations, which have to be performed during execution of a test case such as to switch the UE on/off, initiate a call, etc.

According to 3GPP TS 25.331 [21], clause 12.1.1, the encoding of RRC PDUs is obtained by applying UNALIGNED PER to the abstract syntax value as specified in ITU-T Recommendation X.691 [28]. The two tables below show the declaration of the encoding rule and an example of the use in the definition of an RRC PDU.

Table 1: PER_Unaligned Encoding Rule

Encoding Rule Name	PER_Unaligned
Reference	ITU-T Recommendation X.691 [28]
Default	
Comments	Packet encoding rules (ITU-T Recommendation X.691 [28]) unaligned
	and with adapted padding

Table 2: Definition of the RRC ASN.1 DL_DCCH_Message type by reference

PDU Name	DL_DCCH_Message
PCO Type	DSAP
Type Reference	DL-DCCH-Message
Module Identifier	Class-definitions
Enc Rule	PER_Unaligned
Enc Variation	

6.4.2 RAB test method

6.4.2.1 Sending data on the same TTI

The RAB test requires a specific test method to send the test data on the same TTI. The TFC restriction method is used in this case. A specific TFC subset is allowed to ensure the test data are sent on different RBs on the same TTI. The downlink restriction can be used to ensure that the SS uses a specific TFC for transmission of data, by only allowing the "No data" TFC, and the "desired" TFC. It may also be necessary to include one or more "signalling only" TFCs to allow signalling to occur. The uplink restriction can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.

6.4.2.2 Sending continuous data on consecutive TTIs

The RBS ATS is developed using the tabular TTCN notation. In order to test of multiple-RB combinations and simultaneous signalling, the SS shall be capable of sending continues test data in every TTI using the downlink transport format combination under test. A specific TSO is designed to request the SS sending continuous data. The information about the number of RLC SDUs and their sizes for each RAB will be provided to the system simulator through TSO.

6.5 RLC test method and architecture

6.5.1 Testing architecture

Figure 6 illustrates a typical realization of the RLC ATS.

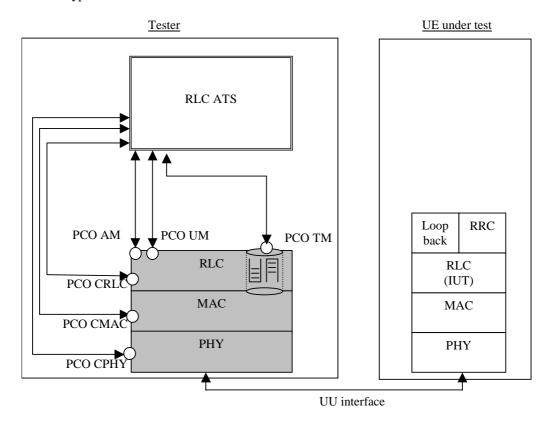


Figure 6: RLC ATS single party test method

The single party test method is used for RLC testing.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For each RLC test case, common test steps will be used to perform the configuration of the tester and the appropriate generic setup procedures as described in 3GPP TS 34.108 [3]. These test steps will make use of PCOs AM, UM, TM, CRLC, CMAC, and CPHY.

Three PCOs are provided at the top of the RLC emulation in the tester, one corresponding to each of the available RLC modes: acknowledged, unacknowledged, and transparent. Routing information for different radio bearers used at these PCOs will be provided in ASP parameters.

The queues shown in the RLC emulation in figure 6 indicate that normal RLC transmit and receive buffering will be used to isolate the TTCN test suite from the real time issues involved if messages are sent directly to the MAC layer.

The RLC TTCN test cases make also use of the NAS TTCN test steps in order to bring UE to Idle state. The NAS test steps, which are called by the RLC test cases or steps, interface with the Dc PCO.

6.5.2 Test method

Figure 7 illustrates an example configuration for downlink UM testing. Uplink and AM tests will use similar configurations. A Tr-Entity is established on the tester side using a CRLC-CONFIG-REQ. A corresponding UM-Entity is created in the UE by sending a Radio Bearer Setup PDU. RLC PDUs are specified in the TTCN test suite, and sent to TM PCO. These PDUs shall be carefully designed so that the Tr-Entity will not perform any segmentation. The system simulator is responsible for direct encoding the abstract representation of transmitted PDUs into a bitstring to be sent by the Transmitting Tr entity. Direct encoding is performed by concatenation of all of the present fields in the abstract representation. It is the TTCN author's responsibility to ensure that the PDU is valid. To test reassembly in the UE side, the segmentation must be explicitly coded in TTCN. To test various aspects of the RLC header (e.g. sequence numbering, length indications, etc.), the RLC header must be explicitly coded in TTCN. Ciphering will not be tested using this approach, and will be disabled in the UE UM Entity.

The segmentation block in the SS Tr-entity is shown in grey to indicate that the functionality is present in the SS, but the test cases shall be carefully designed to ensure that segmentation is not used in the SS Tr-entity for RLC testing.

The deciphering block in the UE UM-entity is shown in grey to indicate that the functionality may be present in the UE, but shall be disabled for RLC testing.

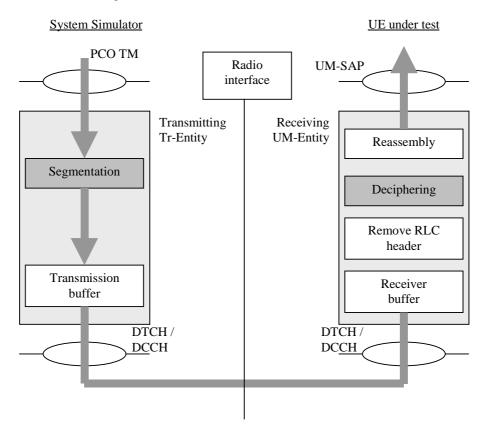


Figure 7: Example configuration for downlink RLC UM testing

The TFCS used for RLC testing must guarantee that Tr mode segmentation will not occur. This is to prevent transmission of more than one Tr PDU per TTI.

All RLC tests that require uplink data will make use of the UE test loop mode 1 defined in 3GPP TS 34.109 [4]. The UE test loop mode 1 function provides all Upper Tester (UT) functionality required, so an UT PCO is not required for RLC tests. Test Loop mode 1 is only available in the user plane, so all RLC tests will be performed in the user plane, using DTCH and DCCH logical channels mapped to DCH transport channels.

Ciphering will be disabled for all RLC test cases. Ciphering will be tested implicitly by other test cases that have ciphering enabled.

Figure 8 illustrates an example configuration for uplink UM testing, and reception of an example UMD PDU. Figure 9 illustrates an example configuration for uplink AM testing, reception of an example STATUS_PDU, and the use of the superFields and superFieldsRec fields.

The ciphering and deciphering blocks in the UE RLC entities are shown in grey to indicate that the functionality may be present in the UE, but shall be disabled for RLC testing.

The reassembly blocks in the SS Tr-entities are shown in grey to indicate that the functionality is present in the SS, but the test cases shall be carefully designed to ensure that reassembly is not used in the SS Tr-entity for RLC testing.

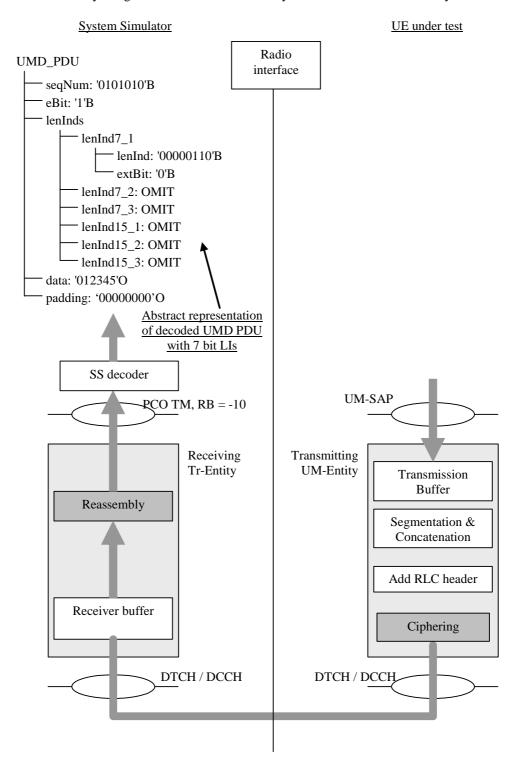


Figure 8: Example configuration for uplink RLC UM testing

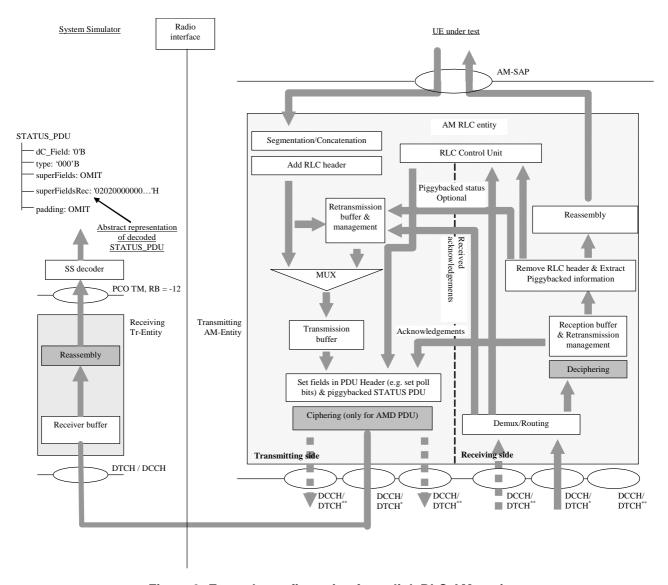


Figure 9: Example configuration for uplink RLC AM testing

Uplink data uses a similar approach to downlink, but the received data must be decoded in the correct way, depending on the current UE configuration. In the example in figure 8, the SS must decode the data received at the TM PCO into an abstract representation of the structure defined in the TTCN for a UMD_PDU, using 7 bit length indicators. This structure is then compared with an abstract representation of the expected data to see if the receive event is successful. Refer to TR 101 666 [27], clause B.5.2.10 for more information.

For RLC testing, the following RB Ids are used within the system simulator, depending on the RLC mode, and length indicator size being simulated.

RLC mode	LI Size	RB Id
UM	7	-10
UM	15	-11
AM	7	-12
AM	15	-13
UM/AM (Rel-7 or later)	7/15	-25

The SS decoder can use the RB Id to determine which abstract structure to create during the decode process. The SS decoder must also understand the RLC peer-to-peer protocol enough to determine which fields are present.

EXAMPLE 1: The semantics of LI extension bits must be known to determine how many LIs are present.

EXAMPLE 2: The contents of the LIs must be interpreted to determine how many octets of data, and how many octets of padding are present.

The SUFI list and any subsequent padding in a received STATUS_PDU or PiggyBackedSTATUS_PDU shall be decoded as a HEXSTRING, and put in the 'superFieldsRec' field of the abstract representation of the STATUS PDU. The "superFields" and "padding" fields shall be omitted for received STATUS PDUs. This is illustrated in figure 9.

As in downlink testing, the TFCS must be defined to guarantee that the Tr entity does not perform any reassembly. This is to prevent reception of more than one Tr PDU per TTI so that the TTCN does not need to manage possible interleaving problems due to multiple PDUs received at the same time (i.e. they may be placed on the PCO queue in any order).

6.5.2.1 Handling SUFIs in TTCN

The SUFIs are a very flexible set of information elements contained in the RLC protocol. The order of the fields varies, the existence of a field may depend upon the presence of another one. A field can be present multiple times. For matching received SUFIs, it is convenient to define the SUFIs as a HEXSTRING which is treated by a TSO **o_SUFI_Handler**.

Depending upon which SUFIs and which aspects of SUFIs are to be checked, the TSO is provided with the information (SUFI_Params) on what checking it is expected to perform. If the check is successful the result TRUE will be returned, otherwise FALSE. Additionally the TSO will return an object which is structured as the SUFIs used in transmission (SuperFields). This will allow to make use of information received and needed to establish SUFIs to be transmitted.

The input parameters to **o_SUFI_Handler** to be used as checking criteria are collected in tabular data structure **SUFI_Params** which is filled each time before the TSO is called. These data are to allow the checking of the presence and the value of SUFIs. All entries shall be set to well-defined values if these are to be used by **o_SUFI_Handler**. As a principle values specifically set are used as criteria for checking, values omitted are used as AnyOrOmit values. The resulting SUFI list is established by **o_SUFI_Handler** and can be retrieved in the data structure returned by the TSO. Details have to be defined in the TSO itself.

Tasks o SUFI Handler has to perform:

- Transfer the SUFIs received into the structure of SuperFields; this is the SUFI list structure existing today.
- If multiple occurrences of SUFI are found then use the **last** one to fill the SuperFields structure. The LIST SUFI is an exception: multiple SUFIs may be used to transfer the complete LIST information.
- Check for all parameters in SUFI_Params set to a specific expected value that one of the SUFIs using this value is present and that the value received matches the specific expected value.
- Check that if SUFIs are received for which an expected value of Any is specified, the SUFI is consistent if that SUFI is received.
- Check that if SUFIs are received for the presence of which no entry is specified in SUFI_Params, the SUFI is consistent.
- Check that sequence numbers are in the range between LB and UB if specific values are set.

Entries in SUFI Params.

Element Name	Significance	Comment
LB	Lower bound of sequence number range	Lowest SN for checking SNs acknowledged
UB	Upper bound of sequence number range	Highest SN for checking SNs acknowledged
WSN_presence	Window Size SUFI present	To check the presence of the Window Size SUFI
MRW_presence	Move Receive Window SUFI present	To check the presence of the MRW SUFI
Nack1	SN of 1 st PDU negatively acknowledged	For the NackList to check SN to be negatively acknowledged
Nack2	SN of 2 nd PDU negatively acknowledged	For the NackList to check SN to be negatively acknowledged
Nack3	SN of 3 rd PDU negatively acknowledged	For the NackList to check SN to be negatively acknowledged

More entries may be required in the future if specific SUFI field values are to be checked. The concept allows to add more fields easily.

6.5.2.2 Void

6.6 SMS test method and architecture

6.6.1 SMS CS test method and architecture

The test method used for SMS CS tests is the same as the NAS test method, see clause 6.3, and the same ASPs, see clause 7.1.2.

6.6.2 SMS PS test method and architecture

The test method used for SMS PS tests is the same as the NAS test method, see clause 6.3, and the same ASPs, see clause 7.1.2.

6.6.3 SMS Cell broadcasting test method and architecture

The test method used for SMS CB tests is the same as the BMC test method, see clause 6.8, and the same ASPs, see clause 7.3.1.1.

6.7 MAC test method and architecture

6.7.1 Testing architecture

Figure 10 illustrates a typical realization of the MAC ATS.

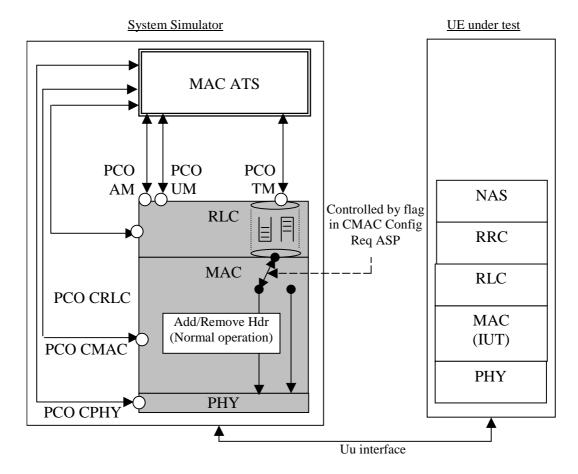


Figure 10: MAC ATS single party test method

6.7.2 Test method

The single party test method is used for MAC testing.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For each MAC test case, common test steps will be used to perform the configuration of the tester and the appropriate generic setup procedures as described in 3GPP TS 34.108 [3]. These test steps will make use of PCOs AM, UM, TM, CRLC, CMAC, and CPHY.

Three PCOs are provided at the top of the RLC emulation in the tester, one corresponding to each of the available RLC modes: acknowledged, unacknowledged, and transparent. Routing information for different radio bearers used at these PCOs will be provided in ASP parameters.

The queues shown in the RLC emulation in figure 8 indicate that normal RLC transmit and receive buffering will be used to isolate the TTCN test suite from the real time issues involved if messages are sent directly to the MAC layer.

A flag is required within the CMAC Config Req to indicate that the SS MAC emulation must not add or remove any MAC header information, even if header fields should be present according to the configured channels. This flag shall allow control of the MAC header on a per logical channel basis. For example, it shall be possible to configure 4 DCCHs and a DTCH mapped to a DCH, such that the MAC will add / remove header information for the DCCHs, but not for the DTCH.

The MAC TTCN test cases make also use of the NAS TTCN test steps in order to bring UE to Idle state. The NAS test steps, which are called by the MAC test cases or steps, interface with the Dc PCO.

For MAC testing, the following RB Ids are used for the high priority NAS RB within the system simulator depending on the MAC configuration being simulated.

RB Id	Simulated configuration	
-14	DCCH mapped to FACH	
-15	DCCH mapped to DCH	
-18	CCCH mapped to FACH	

The SS decoder can use the RB Id to determine which MAC header fields are present, and create the appropriate abstract structure during the decode process. The SS decoder must understand enough of the MAC peer-to-peer protocol to determine which fields are present.

For example, the semantics of the UE Id Type field must be known to determine how many bits should be present in the UE Id field.

The MAC PDUs for MAC testing will always contain an AM RLC PDU (data or status) using 7 bit length indicators. See the RLC test method for further information on the SS decoder requirements for RLC PDUs.

Ciphering shall be disabled for all MAC tests.

6.7.2.1 Abnormal decoding situations

If the SS decoder cannot convert the received data into the supported structure, the SS shall terminate the test case immediately and indicate that a test case error has occurred.

6.7.2.2 MAC_es/e test method (Rel-6 or later)

MAC test method for MAC_es/e is depictured in the following figure. In the UE side the RLC entity is AM mode, in the SS the mode of RLC in downlink direction is TM, the AM mode functions are implemented in TTCN. In the uplink direction, only the mapping between RB identity and logical channel identity (i.e. the sS_rlc_Info in RBInfo is OMITTED) is configured in the RLC entity, the RLC entity passes any data block received on the logical channel to the RB identified by tsc_RB_DTCH_E_DCH_MAC(value is -20), tsc_RB_DTCH_E_DCH_MAC1(-21), or tsc_RB_DTCH_E_DCH_MAC2(-22). Whenever a RLC pdu received through one of the specified RB identifiers, the TTCN shall generate a RLC ack for it and send it on the downlink direction.

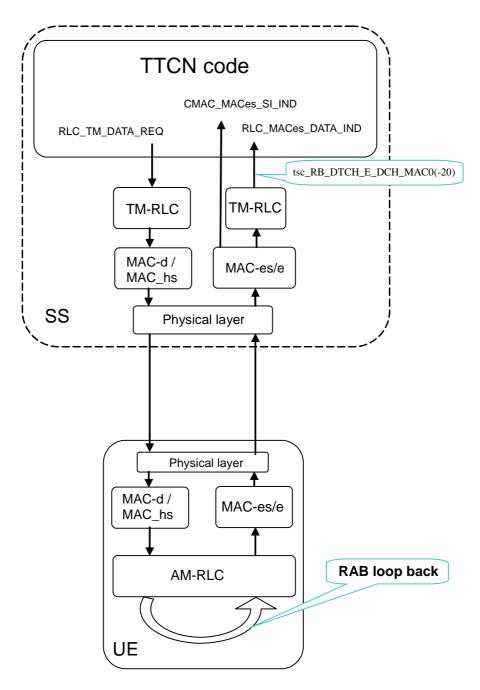


Figure 11: MAC_es/e testing model

6.8 BMC test method and architecture

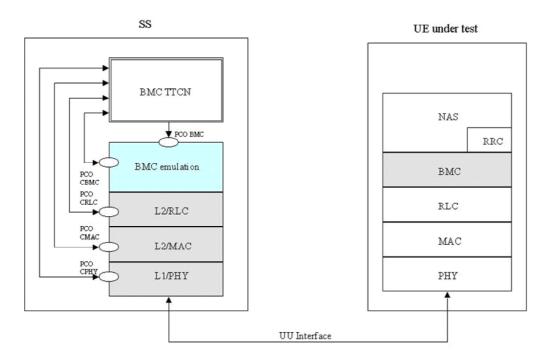


Figure 12: BMC testing architecture single party method

6.8.1 BMC test architecture

The single party test method is used for BMC testing, i.e. it does not exist an Upper Tester. BMC emulation is used as shown in figure 12. The BMC emulation makes use of two PCOs. The CBMC PCO is defined, to pass configuration information for a BMC entity. The BMC PCO is defined for BMC message data transfer.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For BMC test cases, common test steps and newly defined test steps for BMC configuration will be used to perform the configuration of the tester and on UE side. These test steps make use of PCOs, CRLC, CMAC, and CPHY.

The UE shall be able to activate and deactivate a certain CB MessageID according CB data to be sent while testing.

BMC messages are sent in BMC message blocks on the CTCH. For sending BMC messages (BMC Scheduling Message (Level 2, DRX) and BMC CBS Message) a configuration in downlink direction shall be performed to map the CTCH (RB#30) onto the FACH - S-CCPCH.

6.8.2 BMC test method

For BMC testing, only PS Cell Broadcast Service as distributed BMC service is applied. CBS Messages and BMC Schedule Messages are only sent in downlink direction. No uplink is used for BMC testing. The BMC test data with necessary CBS information shall be given by PIXIT parameter with a description of the indication on the display.

This test method uses BMC primitives as defined in 3GPP TS 25.324 [20]. There are two level of BMC scheduling, Level 1 for CTCH configuration and Level 2 for DRX. The BMC scheduling information is conveyed to both BMC and MAC layer.

Level 1 scheduling is used configure the CTCH on the S-CCPCH. For BMC testing (FDD), the Level 1 scheduling parameter M_{TTI} contains one radio frame in the TTI of the FACH used for CTCH. Therefore, only Level 1 scheduling information N (period of CTCH allocation on S-CCPCH) and K (CBS frame offset to synchronize to the SFN cycle (0 to 4 095 frames per cycle)) are necessary to configure the CTCH onto the S-CCPCH.

The Level 1 scheduling is done in the SS MAC layer, therefore this information is given by using the primitive "CMAC_BMCscheduling_REQ" to inform the MAC on SS side about K and N. The Level 1 scheduling information, K and N, is broadcast as system information in SIB 5 and SIB 6. After having performed the CTCH configuration as Level 1 scheduling, the SS is configured to send BMC messages and the UE has to listen to each CTCH for a BMC message.

Segmentation of BMC messages is performed by RLC in UM. A RLC segment shall contain BMC message payload as configured in RB#30 with a maximum number of 57 octets. The 57 octets payload is used to calculate the BMC inband scheduling Level 2 in the BMC TTCN (TSO).

If only one CB data as BMC CBS message is sent and repeated for a BMC test case, Level 1 scheduling is adequate, i.e. no BMC Scheduling Message (Level 2) is needed. Therefore, no level 2 scheduling information are included in the "CMAC_BMCscheduling_REQ" primitive. If more then one BMC CBS message are transmitted and repeated, BMC scheduling Level 2 message shall be performed.

Level 2 scheduling is used to predict the sent event of the next BMC message blocks and the BS index contents.

BMC scheduling Level 2 predicts exactly, which information is contained on a certain CTCH block set with an aligned Block Set index number and how many spare CTCH blocks are given as offset, before the next BMC message block will be sent. Figure 13 shows an example, how the message flow shall be done for BMC scheduling Level 2.

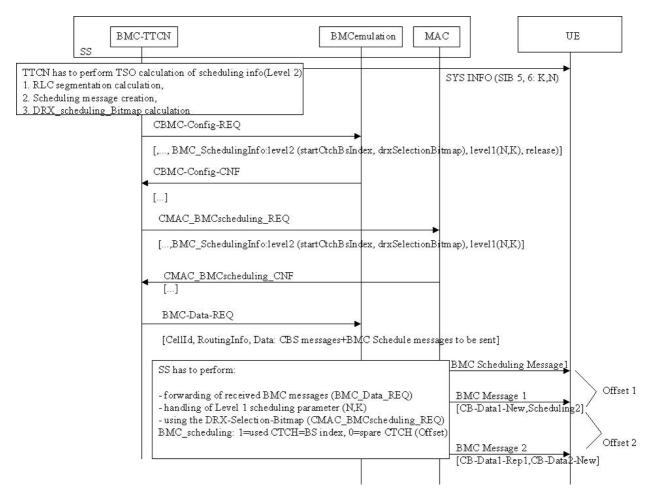


Figure 13: BMC Scheduling

The BMC test method makes use of the primitive: "BMC-Data-REQ" to transmit the BMC Messages to RLC. If BMC Scheduling Level 2 is used, an entire BMC message, including BMC CBS PDUs and a BMC Schedule PDU, to be transmitted is created by the BMC TTCN and forwarded to the BMC emulation. The transmission of BMC PDU is confirmed through the primitive BMC-Data-CNF. The segmentation of the BMC PDU is done at the RLC layer.

According to the K and N value, the MAC layer at SS side determines the CTCH blocks for the BMC use. The CTCH blocks are indexed ($i=1\dots 256$). If BMC DRX is needed, the BMC scheduling Level 2 information figures out the occupancy / spare of the available CTCH blocks by using a DRX_Selection_Bitmap. In the bitmap each bit, set to '1', corresponds to an actually available CTCH block belonging to the DRX period for the SS transmission. The all occupied consecutive CTCH blocks constitutes a BMC DRX period, whilst the consecutive spared blocks indicate the DRX offset as spare CTCH slot.

Following the DRX_Selection_Bitmap, the segmented BMC messages are transmitted. Each "BMC-Data-REQ" primitive has its own aligned "CMAC_BMCscheduling _REQ" primitive, where all BMC scheduling information is predicted. An initial CTCH block index is given (startCtchBsIndex) as a start index offset.

An octet string is defined whereas each bit describes one assigned CTCH block, i.e. one BS index on the S-CCPCH.

Bitmap value:

- 1 (binary) = indicates a used/occupied BS index (CTCH frame, with a payload size of 57 octets) to send BMC message segments for a message block.
- 0 (binary) = indicates a spare BS index, i.e. unused CTCH frame, to give an UE supporting DRX the necessary information.

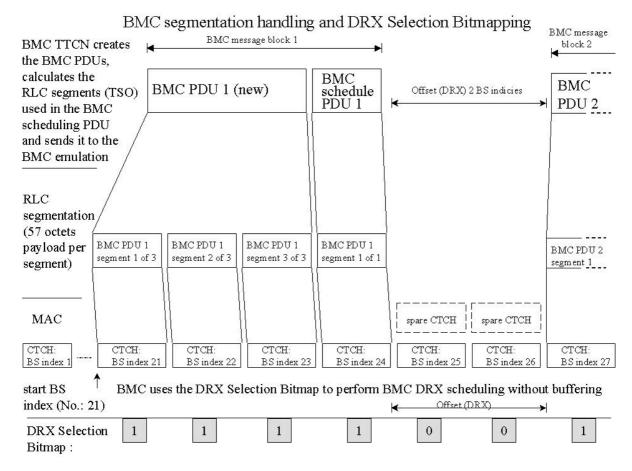


Figure 14: BMC DRX scheduling: segmentation handling

6.9 PDCP test

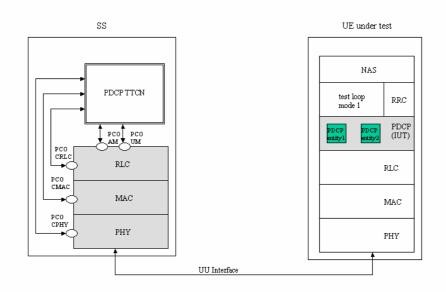


Figure 15: PDCP testing architecture 1: single party test method, with test loop mode 1

6.9.1 PDCP test architecture

The single party test method is used for PDCP testing. All PDCP tests that require uplink data will make use of the UE test loop mode 1 defined in 3GPP TS 34.109 [4]. Test Loop mode 1 is only available in the user plane, so all PDCP tests will be performed in the user plane, using the same logical channels mapped to transport channels as defined in RLC test cases, except for test case, clause 7.3.2.2.4, where a configuration of combined radio bearers used only for this test case is defined.

Separation of TTCN test cases from the configuration of the tester and initialization of the UE is achieved by using test steps. For PDCP test cases, common test steps and newly defined test steps for PDCP configuration will be used to perform the configuration of the tester and the appropriate generic setup procedures as described in 3GPP TS 34.108 [3] and in clause 7.4 of 3GPP TS 34.123-1 [1]. These test steps will make use of PCOs RLC AM, RLC UM, CRLC, CMAC, and CPHY.

The PDCP TTCN test cases make also use of the NAS TTCN test steps in order to setup a PS session.

For PDCP testing, the IP Header Compression protocol as described in RFC 2507 [30] is used as optimization method. The IP header compression and decompression mechanisms as described in RFC 2507 [30] is not part of PDCP TTCN. PDCP testing make use of uncompressed, compressed and decompressed TCP/IP header packets of a certain packet stream and uncompressed, compressed and decompressed UDP/IP header packets of a certain generation. This parameters are given as test parameter (PIXIT information).

PDCP testing includes transmission/reception of compressed/decompressed IP header packets, PDCP sequence numbering while lossless SRNS relocation and PID assignment rules as well as PDCP configuration tests as described in 3GPP TS 25.323 [19]. It does not test optimization specific protocol behaviour as error recovery and packet reordering as described in RFC 2507 [30].

6.9.2 PDCP test method

For PDCP testing, the RB test mode is used with test loop mode 1. After establishing a PS session with RB in RLC UM or/and AM, the UE is configured to support a negotiated PDCP configuration. UDP/IP header packets are used as Non-TCP/IP header packets as PDCP test data.

There are different input parameter as PIXIT values necessary for PDCP testing.

For TCP/IP header packets, uncompressed TCP/IP header packets shall be defined as PIXIT input parameter. In addition, there are the corresponding RFC 2507 [30] FULL_HEADER packet, COMPRESSED_TCP packet and COMPRESSED_TCP_NONDELTA packet given for each TCP/IP header packet as PIXIT information.

For UDP/IP header packets, uncompressed UDP/IP header packets shall be defined as PIXIT input parameter. In addition, there are the corresponding RFC 2507 [30] FULL_HEADER packet and COMPRESSED_NON_TCP packet given for each UDP/IP header packet as PIXIT information.

To check the use of certain PID values assigned to IP compressed header types, a given IP header packet (PIXIT) will be sent to the UE. The UE shall return a appropriate valid IP header packet type, which corresponds to the previous sent IP header packet. The usage of valid compressed/uncompressed IP header packets shall be checked by comparing the given PIXIT IP header packet types for each IP header packet previously sent.

The IP header packet order as described in RFC 2507 [30] shall be applied within a test case.

If for example an TCP/IP header packet of type "COMPRESSED_TCP" shall be sent, the TTCN uses the given TCP/IP header packet (PIXIT) for transmission to the UE. The UE shall decompress the received packets appropriate, afterwards it will be returned by the loop back entity and it shall be sent by applying IP header compression rules as described in RFC 2507 [30] and as configured. Then, the SS receives returned IP header packets and compares it with all valid IP header packets given as PIXIT parameter corresponding to the previously sent IP header packet. It is checked, whether or not the IP header packet with assigned PID is valid and a configured PDCP PDU where used for transmission. In this way, it is checked, that the UE performs IP header compression as configured and is able to assign the correct PID values.

6.10 Multi-RAT Handover Test Model

6.10.1 Overview

The test model is shown in figure 16. The SS in the model consists of UTRAN emulation part and GERAN emulation part, GERAN emulation part includes protocol emulation modules for GSM CS services and protocol emulation modules for GPRS service. Protocol stack L1 (GERAN), L2 is for GSM CS service function emulation, protocol stack L1, RLC/MAC, LLC, SNDCP is for GPRS service function emulation. SNDCP emulation model and relevant PCO's can be removed if "traffic channel gets through" is not tested.

L1 (GERAN) provides necessary physical layer functionality for both GSM and GPRS. A control PCO and a set of ASP's are defined for configuring and controlling its protocol behaviour required in the test cases. L1 (GERAN) provides services to L2 and RLC/MAC emulation modules, the interfaces between them are not specified in this test model, it is implementation dependent and shall follow the relevant GSM and GPRS specifications.

L2 emulates necessary GSM L2 protocol functionality used in testing. A data PCO and a set of ASP's are defined for this module and used for transmitting and receiving layer 3 signalling messages and use data. The definition of the PCO and these ASP's are based on the logical channel concept of GSM specification. A control PCO and related ASP's are also defined for L2, they are used to introduce abnormal layer 2 behaviour required by the test purposes.

RLC/MAC is emulation module for GPRS Radio Link Control/Medium Access Control protocol. Two PCO's and related ASP's are defined for the module. Control PCO is used to set TBF and assign physical resources to it, actual physical resources (packet channels) are created by L1 (GERAN) ASP's beforehand. Data PCO is for transmitting and receiving RLC control messages (RLC control block). Before any RLC data or control block, except RLC control block on PCCCH or PRACH, or PBCCH, is sent (or received) a proper TBF shall be configured. In addition RLC/MAC module provides service to LLC emulation module, the interface between them is determined by implementation and shall be compliant with relevant core specification.

LLC performs GPRS Logical Link Control protocol emulation. Its data PCO and ASP's are used for exchange GMM signalling messages between TTCN and the UE under test. The current defined ASP's on control PCO are subset of the primitives defined in core specification, they are used to assign, un-assign TLLI and ciphering parameters, or get status report.

6.10.2 ASP function description

6.10.2.1 Identities

- Within the SS, a cell is identified by cell identifier (cellId), which is of TTCN type CellId (INTEGER).
- Within a cell, a basic physical channel is identified by physical channel identifier (physicalChId), which is of TTCN type PhysicalChId (INTEGER). In multislot configuration a basic physical channel is identified by physical channel identifier (physicalChId) and timeslot, which is of TTCN type TN (INTEGER).
- Within a physical channel, logical channel is identified by logical channel type (g_LogicChType), which is of TTCN type G_LogicChType (INTEGER). When multiple logical channels of same type are carried by (mapped to) the same basic physical channel, they are differentiated by sub-channel number (subChannel), which is of TTCN type SubChannelNumber (INTEGER).
- At the top boundary of L2 emulation module two service access points (SAP) are available, they are identified by SAPI. SAPI=3 is used for short message service; SAPI=0 is used for L3 signalling messages and user data.

EXAMPLE: If G_L2_DATA_REQ ASP has the following parameter setting:

- cellId = tsc CellA;
- $sAPI = tsc_SAPI_0$;
- physicalChId = tsc_PhyCh0;
- g_LogicChType = tsc_SDCCH4; and
- sunChannel = tsc_SubChannel1;

it sends PDU on the SDCCH4(1) logical channel which is carried by the physical channel tsc_PhyCh0 in cell A.

6.10.2.2 Cell configuration and control

In GSM each base station has a base station identity code BSIC, it consists of network colour code and base station colour code (NCC + BCC). BSIC is continuously broadcasted on the SCH channel, and it shall be used as the training sequence code for broadcast and common control channels.

In the test model the function of G_CL1_CreateCell_REQ ASP is to create a cell and pass parameter BSIC to it. This ASP establishes the cell identifier which shall be used in the ASP's related to this cell.

This is the first step to configure L1 (GERAN) emulation module of the SS.

6.10.2.3 L1 (GERAN) configuration and control

Configuration and control functions identified for L1 (GERAN) of a cell are:

- creation of basic physical channels;
- creation of multislot configuration;
- release of basic physical channel;
- modifications of channel mode, ciphering parameters and transmission power level;
- reporting of L1 header of SACCH channel;
- pickup a frame in near future, which can carry L3 message.

6.10.2.3.1 Basic physical channel configuration

A basic physical channel uses a combination of frequency and time domain resources, therefore, the definition of a particular basic physical channel consists of a description in the frequency domain and a description in the time domain. In time domain the resource is called Time Slot, there are 8 time slots in one frame, numbered from 0 to 7. In frequency domain a basic physical channel may use only one frequency or may use multiple frequencies in frequency hopping.

Basic physical channel carrying FCCH + SCH + BCCH + CCCH (PCH, AGCH, RACH) or FCCH + SCH + BCCH + CCCH + SDCCH4 logical channels shall be located in time slot 0, and uses single frequency (non-hopping). The basic physical channel carrying additional BCCH, CCCH (PCH, AGCH, RACH) logical channels shall be located in time slot 2, 4, 6 and uses the same single frequency as the frequency used by the physical channel carrying FCCH, SCH.

GSM specification defines 24 permitted combinations of different logical channels, which can be mapped on to a basic physical channel. The combination defines which logical channels are carried by a basic physical channel, and it is also an indication of which modulation (GMSK or 8PSK) is used for the basic physical channel.

Training Sequence Code (TSC) is another parameter needed by physical channel. Common control and broadcast channel have to use BCC as its TSC.

Dedicated control channel and dedicated traffic channel need more parameters to configure. Parameter "Channel Mode" is needed to specify channel coding (therefore the user data rate). Ciphering related parameters are required to define the ciphering behaviour of the channel.

Common control channels need parameters to configure where in the 51-multiframe paging and access grant blocks are located.

Transmission power level is provided as per physical channel parameter, power level of each physical channel can be controlled independently.

The function of ASP G_CL1_CreateBasicPhyCh_REQ is to create a basic physical channel which has the required property defined by all the parameters mentioned above.

In the process of L1 (GERAN) configuration, calling the ASP is the next step after calling G_CL1_CreateCell_REQ.

6.10.2.3.2 Multislot configuration for circuit or packet switched channels

Multislot configuration for circuit switched connection consists of multiple circuit switched traffic channels, in L1 point of view these traffic channels are independent basic physical channels with the same frequency parameters (ARFCN or MA, MAIO, HSN) and the same training sequence code but located in different time slots, one of the basic physical channels is the main channel of the configuration carrying the main signalling (FACCH, SACCH, IACCH) for the configuration. The main channel shall be bi-directional channel and with channelCombanition TCH/F+FACCH/F+SACCH/M or E-TCH/F+E-IACCH/F+E-FACCH/F+E-SACCH/M. When transmitting user data (not signalling message) stream is divided into substreams, each substream is transmitted independently on a channel in the configuration. At the receiving side all substreams are combined back to user stream.

According to the test model creation of a multislot configuration for circuit switched connection needs two ASP calls. Firstly, G_L1_CreatedBasicPhyCh_REQ is called to establish the main channel, then G_L1_CreateMultiSlotConfig_REQ is called to allocate more timeslots to the channel established by the previous ASP. A substream of a multislot configuration is identified with the physicalChId and timeslot.

Multislot configuration for packet switched connection consists of multiple PDCHs which can carry PDTCH/Us or PDTCH/Ds. All these PDCHs use the same frequency parameters (ARFCN or MA, MAIO, HSN) and the same training sequence code, but are located on different timeslots.

Similarly, a multislot configuration for packet switched connection is created with two ASP calls. First G_L1_CreatedBasicPhyCh_REQ is called to establish the first PDCH channel, then G_L1_CreateMultiSlotConfig_REQ is called to allocate more timeslots to the channel established by the previous ASP. All data ASP on packet data channel use physicalChId and timeslot to address the physical channels.

6.10.2.3.3 Frame in the near future

ASP G_CL1_ComingFN_REQ is defined to request L1 (GERAN) return the reduced frame number (FN modulo 42432) which is far enough in the future from current frame number and is able to carry L3 message on the specified channel. "far enough" means that there is enough time left for TTCN to prepare a L3 message to be sent on that frame. When calculating startingTime, this ASP could be useful. The starting time usually is set to a frame number in a time distance from current frame number. TTCN writer can use G_CL1_ComingFN_REQ to get a frame number in the future then add a certain number of frames as time distance to it and use the result as the value for startingTime.

6.10.2.3.4 L1 header

The layer 1 header of SACCH from UE to network carries information of timing advance and UE uplink transmission power level, verifying L1 header contents is required in some test cases, ASP G_CL1_L1Header_REQ and G_CL1_L1Header_CNF are defined for fulfilling this requirement.

6.10.2.4 L2 configuration and control

For normal operation there is no parameter configurable in L2. Some abnormal L2 behaviours are required in test cases. In the test model two ASP's are currently defined to introduce abnormal L2 behaviour. When creating a dedicated channel the initial SACCH header is set to the values in powerLevel and timingAdvance fields of DedCH_Info.

6.10.2.4.1 Don't response to some handover access bursts

In non-synchronized handover procedure UE/MS, having received handover command, sends handover access bursts on the target channel repeatedly till it receives PHYSICAL INFORMATION message from network or T3124 times out. Normally network replies PHYSICAL INFORMATION as soon as it receives handover access burst. Some test cases require that the SS ignores several incoming handover access bursts then responses to the one that follows. ASP G_CL2_HoldPhyInfo_REQ is defined for fulfilling this requirement. It is used together with and before a data ASP sending PHYSICAL INFORMATION message. When SS receives the G_CL2_HoldPhyInfo_REQ, it does not transmit the PHYSICAL INFORMATION message until n handover access bursts have been received.

6.10.2.4.2 No UA reply to SABM

GSM L2 protocol is adapted from LAPD (HDLC subset). The multiframe operation mode is established through exchange of supervisory frame SABM and unnumbered frame UA between peer entities, and SABM is always sent by UE/MS, UA is always sent by network. UE/MS will repeatedly transmit SABM till it receives UA or retransmission counter is reached. Some handover test cases require that the SS does not response to the incoming SABM, so handover fails. G_CL2_NoUAforSABM_REQ is used for such purpose, it commands the SS not to send UA response to the UE when SABM is received.

6.10.2.5 System Information sending

There are 17 different SYSTEM INFORMATION messages on BCCH and 4 different SYSTEM INFORMATION messages on SACCH defined for circuit switched services in GSM specification. In a particular test case not all of them are required. SYSTEM INFORMATION messages on BCCH shall be broadcasted periodically by the SS, SYSTEM INFORMATION TYPE 5, 6 and optionally 5bis and 5ter messages shall be sent on SACCH by the SS when nothing else has to be sent on that channel.

G_L2_SYSINFO_REQ is defined to deliver a SYSTEM INFORMATION message and its type SysInfoType to the SS, SS shall store the SYSTEM INFORMATION and transmit it periodically according to the scheduling rules specified in 3GPP TS 45.002 [31], clause 6.3.1.3. SYSTEM INFORMATION message newly delivered shall override the same type SYSTEM IFORMATION message previously stored in the SS.

SYSTEM INFORMATION message type 18, 19, 20 are scheduled by scheduling information in SYSTEM INFORMATION type 9. ASP for scheduling these messages has not been defined yet because these messages are not required in current test cases.

6.10.2.6 Paging

Paging message for a particular UE/MS shall be sent on the right CCCH_GROUP (or PCCCH_GROUP) and PAGING_GROUP which are determined by IMSI of the UE/MS and other parameters. In the test model TTCN code is responsible to calculate the value of CCCH_GROUP (or PCCCH_GROUP) and the value of PAGING_GROUP.

TTCN selects the right channel according to the value of CCCH_GROUP (or PCCCH_GROUP), then PAGING REQUEST message and the value of PAGING_GROUP are passed to the SS by using:

- ASP G_L2_Paging_REQ in case of UE/MS in idle mode or the UE/MS not supporting SPLIT_PG_CYCLE on CCCH when it is in GPRS attached mode and PCCCH is absent; or
- G_RLC_ControlMsg_REQ in case of UE/MS supporting 3GPP TS 45.002 [31], clause 6.5.6, when it is in GPRS attached mode and PCCCH is present.

The SS shall determine the position where the paging block is located using the value PAGING_GROUP and other CCCH (or PCCCH) parameters configured by G_CL1_CreateBasicPhyCH_REQ, then send the PAGING REQUEST message according the parameter pagingMode in the ASP:

- send the message on the paging block determined by PAGING_GROUP if pagingMode = "normal paging";
- send the message on the paging block determined by PAGING_GROUP and the "next but one" position on the PCH or in the third block period on PCCCH where paging may occur (PPCH) if pagingMode = "extended paging";
- send the message on all paging blocks if pagingMode ="paging reorganization".

6.10.2.7 Generic procedures for GPRS signalling

Two channel combinations are applied to configure a GERAN cell for the GPRS signalling:

- The channel combinations 5 + 13, (FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3)) + (PBCCH+PCCCH+PDTCH/F+PACCH/F+PTCCH/F), are considered as default at the interRAT tests.
- The channel combinations 5 + 11, (FCCH + SCH + BCCH + CCCH + SDCCH/4(0..3) + SACCH/C4(0..3)) + (PDTCH/F+PACCH/F), are applied to the clause 42.4.7.

The following generic procedures show the usages of GPRS ASP's for the GPRS generic attach procedures, the generic cell change order within a TBF and the GSM ciphering procedure.

6.10.2.7.1 GPRS generic attach procedures and ciphering mode control

6.10.2.7.1.1 GPRS attach procedure in channel combinations 5 and 13

Direction	ASP	message	Comments
SS	G_CL1_CreateCell_REQ		Create the cell
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 5 for FCCH+SCH+BCCH+CCCH+SDCCH/4(03)+SACCH/C4(03)
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 13 for PDTCH/F+PACCH/F+PTCCH/F
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13	Broadcast system information messages : SI 1~4; SI 13
SS SS SS	G_CRLC_CreateRLC_MAC_REQ G_CLLC_CreateLLE_REQ MMI_CmdReq		Create RLC/MAC emulation entity Create LLC emulation entity Power on the UE/MS

Direction	ASP	message	Comments
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	DACIL TDE actablishment with
SS	G_CRLC_UL_TBF_Config_REQ		RACH, TBF establishment with Establishment Cause = one phase packet access. Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in IMMEDIATE
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	ASSIGNMENT. Assign the uplink resources (uplink TBF) to MS. Polling bit and Starting Time are set
MS -> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	Time are set
SS	G_CLLC_Assign_REQ		Assign TLLI, ciphering key and algorithm. The ciphering algorithm = "ciphering not used". The value of ciphering key shall be the one generated in the following authentication procedure. If there is no user data traffic in acknowledged mode before authentication procedure the ciphering algorithm may be set to one of the GPRS ciphering algorithm, and the late G_CLLC_Assign_REQ shall be not used.
MS -> SS	G_LLC_UNITDATA_IND	ATTACH REQUEST	MS uses the assigned uplink TBF to transmit the L3 message to SS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically according the countdown procedure. The SS reassembles the received data blocks into the L3 message and passes it to the LLC DATA PCO
SS	G_CRLC_DL_TBF_Config_REQ		G_LLC. Set up downlink TBF in RLC/MAC
SS -> MS SS -> MS	G_L2_Paging_REQ G_LLC_UNITDATA_REQ	IMMEDIATE ASSIGNMENT AUTHENTICATION AND CIPHERING REQUEST	entity in SS Downlink TBF establishment
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	RACH, TBF establishment with Establishment Cause = one phase
SS	G_CRLC_UL_TBF_Config_REQ		packet access. Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in IMMEDIATE ASSIGNMENT.
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. Polling bit and Starting Time are set
MS -> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	Time are sec
SS MS -> SS	G_CLLC_Assign_REQ G_LLC_UNITDATA_IND	AUTHENTICATION AND CIPHERING RESPONSE	Assign TLLI, if changed
SS	G_CLLC_Assign_REQ		Keep TLLI unchanged, ciphering algorithm = one of the GPRS ciphering algorithm. The value of ciphering key shall be the one generated in the authentication procedure. If no user data traffic in acknowledged mode before authentication procedure, this ASP is not needed.

Direction	ASP	message	Comments
SS	G_CRLC_DL_TBF_Config_REQ		Set up downlink TBF in RLC/MAC
SS -> MS SS -> MS	G_L2_Paging_REQ G_LLC_UNITDATA_REQ	IMMEDIATE ASSIGNMENT ATTACH ACCEPT	entity in SS Downlink TBF establishment SS uses the established downlink
			TBF to transmit the L3 message to MS, the SS manages the operation of
			the TBF without TTCN intervention and releases the TBF automatically
			after all data blocks of the L3 message are transmitted
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	
			RACH, TBF establishment with Establishment Cause = one phase packet access.
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. Polling bit and Starting Time are set
MS -> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS	G_CLLC_Assign_REQ		Assign new TLLI
MS -> SS	G_LLC_UNITDATA_IND	ATTACH COMPLETE	MS uses the assigned uplink TBF to transmit the L3 message to SS, the
			SS manages the operation of the TBF without TTCN intervention and
			releases the TBF automatically
SS	G_CRLC_DeleteRLC_MAC_REQ		according the countdown procedure Release resources in the SS for RLC/MAC emulation entity
SS	G_CLLC_DeleteLLE_REQ		Release resources in the SS for LLC emulation entity
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 13
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 5
SS	G_CL1_DeleteCell_REQ		

6.10.2.7.1.2 GPRS attach procedure in channel combinations 5 and 11

Direction	ASP	message	Comments
SS	G_CL1_CreateCell_REQ		Create the cell
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel
			combination 5 for
			FCCH+SCH+BCCH+CCCH+SDCCH/
			4(03)+SACCH/C4(03)
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel
			combination 11 for
			PBCCH+PCCCH+PDTCH+PACCH
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION	Broadcast system information
		TYPE1, SYSTEM	messages: SI 1~4; SI 13
		INFORMATION TYPE2,	
		SYSTEM INFORMATION	
		TYPE2quater, SYSTEM	
		INFORMATION TYPE3,	
		SYSTEM INFORMATION	
		TYPE4, SYSTEM	
		INFORMATION TYPE13	

Direction	ASP	message	Comments
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION	Broadcast system information
SS SS -> MS	G_CRLC_CreateRLC_MAC_REQ G_RLC_PSI_REQ	TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13 PACKET SYSTEM INFORMATION TYPE1, PACKET SYSTEM INFORMATION TYPE2, PACKET SYSTEM INFORMATION TYPE3, PACKET SYSTEM INFORMATION TYPE3, PACKET SYSTEM INFORMATION TYPE3, PACKET SYSTEM INFORMATION TYPE3bis, PACKET SYSTEM INFORMATION TYPE5	messages: SI 1~4; SI 13 Create RLC/MAC emulation entity Broadcast packet system information messages: PSI 1~3bis and if measurement order tests PSI5
SS SS	G_CLLC_CreateLLE_REQ MMI_CmdReq		Create LLC emulation entity Power on the UE/MS
MS-> SS	G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	PRACH, TBF establishment with MM procedure
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in PACKET UPLINK ASSIGNMENT next
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. S/P bit set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS	G_CLLC_Assign_REQ		Assign TLLI, ciphering key and algorithm. The ciphering algorithm = "ciphering not used". The value of ciphering key shall be the one generated in the following authentication procedure. If there is no user data traffic in acknowledged mode before authentication procedure the ciphering algorithm may be set to one of the GPRS ciphering algorithm, and the late G_CLLC_Assing_REQ shall be not used.
MS -> SS	G_LLC_UNITDATA_IND	ATTACH REQUEST	MS uses the assigned uplink TBF to transmit the L3 message to SS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically according the countdown procedure. The SS reassembles the received data blocks into the L3 message and passes it to the LLC DATA PCO G_LLC.
SS	G_CRLC_DL_TBF_Config_REQ		Set up downlink TBF in RLC/MAC
SS -> MS	G_RLC_ControlMsg_REQ	PACKET DOWNLINK ASSIGNMENT	entity in SS Downlink TBF establishment S/P bit is set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS -> MS	G_LLC_UNITDATA_REQ	AUTHENTICATION AND CIPHERING REQUEST	
MS-> SS	G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	PRACH, TBF establishment with MM procedure

Direction	ASP	message	Comments
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity
			in SS, this TBF is corresponding to what indicated in PACKET UPLINK ASSIGNMENT next
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. S/P bit is set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	
SS	G_CLLC_Assign_REQ		Assign TLLI, if changed
MS -> SS	G_LLC_UNITDATA_IND	AUTHENTICATION AND CIPHERING RESPONSE	Kan Till washen and sinhaving
SS	G_CLLC_Assign_REQ		Keep TLLI unchanged, ciphering algorithm = one of the GPRS ciphering algorithm. The value of ciphering key shall be the one generated in the authentication procedure. If no user data traffic in acknowledged mode before authentication procedure, this ASP is not needed.
SS	G_CRLC_DL_TBF_Config_REQ		Set up downlink TBF in RLC/MAC entity in SS
SS -> MS	G_RLC_ControlMsg_REQ	PACKET DOWNLINK ASSIGNMENT	Downlink TBF establishment S/P bit is set.
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	5,7 24.16 664
SS -> MS	G_LLC_UNITDATA_REQ	ATTACH ACCEPT	SS uses the established downlink TBF to transmit the L3 message to MS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically after all data blocks of the L3 message are transmitted
MS-> SS	G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	PRACH, TBF establishment with MM procedure
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS. S/P bit is set
MS-> SS	G_RLC_ControlMsg_IND	PACKET CONTROL ACKNOWLEDGEMENT	,
SS	G_CLLC_Assign_REQ		Assign new TLLI, ciphering key and algorithm unchanged
MS -> SS	G_LLC_UNITDATA_IND	ATTACH COMPLETE	MS uses the assigned uplink TBF to transmit the L3 message to SS, the SS manages the operation of the TBF without TTCN intervention and releases the TBF automatically according the countdown procedure
SS	G_CRLC_DeleteRLC_MAC_REQ		Release resources in the SS for RLC/MAC emulation entity
SS	G_CLLC_DeleteLLE_REQ		Release resources in the SS for LLC emulation entity
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 11
SS	G_CL1_DeleteChannel_REQ		Release SS resources of channel combination 5
SS	G_CL1_DeleteCell_REQ		COMMUNICATION O

6.10.2.7.2 Cell change order within a TBF

6.10.2.7.2.1 Cell change order procedure in channel combinations 5 and 13

Direction	ASP	message	Comments
SS SS	G_CL1_CreateCell_REQ G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 5 for FCCH+SCH+BCCH+CCCH+SDCC H/4(03)+SACCH/C4(03)
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 13 for PDTCH/F+PACCH/F+PTCCH/F
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13	Broadcast system information messages: SI 1~4; SI 13
SS SS SS	G_CRLC_CreateRLC_MAC_REQ G_CLLC_CreateLLE_REQ G_CLLC_Assign_REQ		Create RLC/MAC emulation entity Create LLC emulation entity Assign TLLI, ciphering key and
MS			algorithm MS is GPRS attached, PDP context activated, then trigger MS to send two SNDCP PDU on LLC SAPI 3, each with 500 bytes user data.
MS-> SS	G_L2_ACCESS_IND	CHANNEL REQUEST	RACH, TBF establishment with Establishment Cause = one phase packet access.
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in the next IMMEDIATE ASSIGNMENT. The USFRate is set to 5 USF per second.
SS -> MS	G_L2_UNITDATA_REQ	IMMEDIATE ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS
MS -> SS	G_LLC_UNITDATA_IND	User data on SAPI 3, the first SNDCP PDU	The TBF shall not be in countdown process
SS -> MS	G_RLC_ControlMsg_REQ	PACKET MEASUREMENT ORDER	This is within the TBF established above, which is in the process handling the second SNDCP PDU REPORT_TYPE = 1
MS -> SS	G_RLC_ControlMsg_IND	PACKET MEASUREMENT REPORT	MS sends the PACKET MEASUREMENT REPORT
SS -> MS	G_RLC_ControlMsg_REQ	PACKET CELL CHANGE ORDER	This is within the TBF established above what follows are in UTRAN cell, not present here

6.10.2.7.2.2 Cell change order procedure in channel combinations 5 and 11

Direction	ASP	message	Comments
SS SS	G_CL1_CreateCell_REQ G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 5 for FCCH+SCH+BCCH+CCCH+SDCC H/4(03)+SACCH/C4(03)
SS	G_CL1_CreateBasicPhyCh_REQ		Create the physical channel combination 11 for PBCCH+PCCCH+PDTCH+PACCH
SS -> MS	G_L2_SYSINFO_REQ	SYSTEM INFORMATION TYPE1, SYSTEM INFORMATION TYPE2, SYSTEM INFORMATION TYPE2quater, SYSTEM INFORMATION TYPE3, SYSTEM INFORMATION TYPE4, SYSTEM INFORMATION TYPE13	Broadcast system information messages: SI 1~4; SI 13
SS SS -> MS	G_CRLC_CreateRLC_MAC_REQ G_RLC_PSI_REQ	PACKET SYSTEM INFORMATION TYPE1, PACKET SYSTEM INFORMATION TYPE2, PACKET SYSTEM INFORMATION TYPE3, PACKET SYSTEM INFORMATION TYPE3bis, PACKET SYSTEM INFORMATION TYPE5	Create RLC/MAC emulation entity Broadcast packet system information messages : PSI 1~3bis, and PSI 5
SS SS MS	G_CLLC_CreateLLE_REQ G_CLLC_Assign_REQ		Create LLC emulation entity Assign TLLI, ciphering key and algorithm MS is GPRS attached, PDP context activated, then trigger MS to send two SNDCP PDU on LLC SAPI 3,
MS-> SS	G_RLC_ACCESS_IND	PACKET CHANNEL REQUEST	each with 500 bytes user data. PRACH, TBF establishment with one phase or two phase access
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	PCCCH, Single block allocation
MS -> SS	G_RLC_ControlMsg_IND	PACKET RESOURCE REQUEST	
SS	G_CRLC_UL_TBF_Config_REQ		Set up uplink TBF in RLC/MAC entity in SS, this TBF is corresponding to what indicated in PACKET UPLINK ASSIGNMENT next. The USFRate is set to 5 USF per second.
SS -> MS	G_RLC_ControlMsg_REQ	PACKET UPLINK ASSIGNMENT	Assign the uplink resources (uplink TBF) to MS
MS -> SS	G_LLC_UNITDATA_IND	User data on SAPI 3, the first SNDCP PDU	The TBF shall not be in countdown process
SS -> MS	G_RLC_ControlMsg_REQ	PACKET MEASUREMENT ORDER	This is within the TBF established above, which is in the process handling the second SNDCP PDU REPORT_TYPE = 0
MS -> SS	G_RLC_ControlMsg_IND	PACKET ENHANCED MEASUREMENT REPORT	MS sends control message
SS -> MS	G_RLC_ControlMsg_REQ	PACKET CELL CHANGE ORDER	This is within the TBF established above what follows are in UTRAN cell, not present here

6.10.2.8 Generic configuration procedure for GSM ciphering mode control

Direction	ASP	message	Comments
			Other necessary configuration ASP's
SS	G_CL1_CreateBasicPhyCh_REQ		Create a dedicated physical channel, e.g. combination 1 with ciphering not started: This ASP download Kc and ciphering algorithm to the SS with startingCiph = 0 in cipherMode. If there is no authentication procedure before CIPHERING MODE COMMAND, the value of Kc in this ASP shall be the one generated in previous authentication procedure, otherwise the value of Kc shall be the one generated by forthcoming authentication procedure.
			Any other signalling message sending/receiving or configuration ASP's
SS	G_CL1_CipheringControl_REQ		rcvCipherMode ='1', the SS starts ciphering on receiving
SS	G_CL1_CipheringControl_CNF		
SS -> MS	G_L2_DATA_REQ	CIPHERING MODE COMMAND	Sent without ciphering
SS			Before this point both transmitting and receiving in the SS are not ciphered.
MS -> SS	G_L2_DATA_IND	CIPHERING MODE COMPLETE	After receiving this message the SS shall start ciphering on transmitting, The CIPHERING MODE COMPLETE is ciphered Any signalling message or user data sending/receiving in ciphered mode

6.10.2.9 L|H bits convention and bit padding in DL

6.10.2.9.1 GERAN DL RLC/MAC message bit padding

The length of a GPRS RLC/MAC control messages is an integer number of RLC/MAC control blocks. Padding bits are necessary to fill the message up to the desired length. The padding bits may be the 'null' string. Otherwise, the padding bits starts with bit '0', followed by "spare padding". The padding sequence used for "spare padding" in the present document, is a repetition of octet '00101011', starting on an octet boundary.

In the TTCN a specific encoding variation - encoding rule 1 - is defined according to the rules described above. This shall be used in the definition of the message itself. No 'padding bits' field will be defined in the TTCN. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message shall be filled with 'padding bits'.

6.10.2.9.2 GSM DL message spare padding

A number of GPRS information elements are defined in the rest octets of certain GSM DL messages, for instance, IA Rest Octets, SI 2quater Rest Octets, SI 3 Rest Octets, SI 4 Rest Octets, SI 13 Rest Octets, etc. These rest octets were filled in a repetition of bit padding '00101011' or '2B'O, starting on an octet boundary to a certain length.

In the TTCN, a second encoding variation - encoding rule 2 - shall be used in the definition of the message itself, which shall be of a fixed length (always 23 octets). No "spare padding" field will be defined in the TTCN. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message, up to the defined fixed length, shall be filled with "spare padding".

6.10.2.9.3 L | H convention in rest octets of GSM DL messages

A number of GPRS information elements are defined in the rest octets of certain GSM DL messages. The special notations "L" and "H" are used to denote respectively the bit's logical value corresponding to the padding spare bit for that position, and the other value. The actual value of the bit transmitted by SS therefore depends upon its position within the octet - this involves counting bits.

In the TTCN a third encoding variation - encoding rule 3 - is defined for this purpose. This encoding variation is applied to those specific TTCN Rest Octets definitions which contain the L|H convention.

6.10.2.9.4 Spare Bits

Where the IE definition of RLC/MAC blocks contains bits defined to be 'spare bits', these bits shall set to the value '0' by the TTCN writers, according to the defined length indicator.

6.10.2.9.5 GSM System Information messages on SACCH

Certain GSM System Information messages, for instance, SI 5 and SI 6 are sent as a B4 frame on the SACCH. These messages are defined in 3GPP 44.006 [42], clause 8.8.3, to have a maximum of 19 octets.

In the TTCN a fourth encoding variation - encoding rule 4 - shall be used in the definition of the message itself. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message, up to the fixed length of 19 octets, shall be filled with "spare padding".

6.10.2.9.6 GSM Measurement Information messages on SACCH

The GSM Measurement Information message is sent as a Bter UI frame on the SACCH. This messages is defined in 3GPP 44.006 [42], clause 8.8.3 to have a maximum of 21 octets.

In the TTCN a fifth encoding variation - encoding rule 5 - shall be used in the definition of the message itself. The implementation shall ensure that after encoding the message contents defined in the TTCN, the remainder of the message, up to the fixed length of 21 octets, shall be filled with "spare padding".

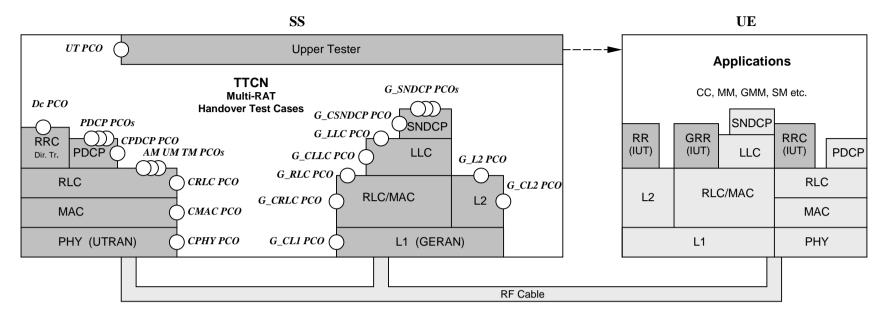
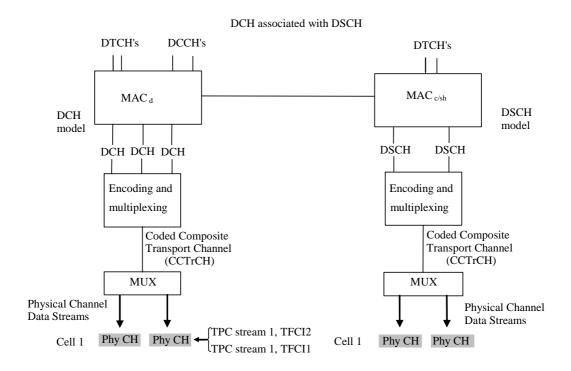


Figure 16: The model of multi-RAT handover testing

6.11 DCH-DSCH model (R99 or Rel-4)

The model illustrates the relationship between various channels from logical channel to physical channels. DCH are associated with DSCH.



TFC11 indicates the DCH specific TFC and TFC12 indicates the DSCH specific TFC and also the PDSCH channelisation code(s)

Figure 17: Associated DCH-DSCH model

The model associating DCH with DSCH enable in the SS:

- to define DSCH transport channel;
- to define TFCI(field2) for DSCH;
- to configure PDSCH;
- to define DSCH-RNTI value.

6.12 DCH with HS-DSCH (MAC-hs) model (FDD, Rel-5 or later)

The test model illustrates the relationship between various channels from logical channels to physical channels. All DCH are associated with a single HS-DSCH.

DCH associated with HS-DSCH

DTCH's C/T DTCH's DCCH's MUX MUX MAC-d flow MAC-d flow MAC_d MAC hs **DCH** HS-DSCH model model DCH DCH DCH HS-DSCH Decoding Encoding and Encoding and multiplexing multiplexing Encoding Coded Composite Coded Composite Transport Channel Transport Channel PhyCh (CCTrCH) (CCTrCH) mapping PhyCh mapping PhyCh mapping Physical Channel Physical Channel Data Streams Data Streams DPCH's → Phy CH Phy CH HS-DPCCH Cell 1 HS-SCCH's Phy CH Phy CH ← HS-PDSCH's Cell 1 DPCH's → Phy CH Phy CH Cell 2

Figure 18: Associated DCH with HS-DSCH model

Associating DCH with HS-DSCH, the model enables in the SS:

- to define MAC-hs and multiplexing of logical channels DTCHs onto MAC-d flows;
- to configure HS-DSCH transport channel and MAC-d flows;
- to configure HS-PDSCHs and HS-SCCHs;
- to define the H-RNTI value.

HS-SCCH's Phy CH Phy CH ← HS-PDSCH's

6.12a DCH with HS-DSCH model for 1.28 Mcps TDD (Rel-5 or later)

DCH associated with HS-DSCH DTCH's C/T DTCH's DCCH's C/T MUX MUX MAC-d flow MAC-d flow MAC_d MAC_{hs} DCH **HS-DSCH** model model DCH DCH DCH HS-DSCH Decoding Encoding and Encoding and multiplexing multiplexing Encoding Coded Composite Coded Composite Transport Channel Transport Channel PhyCh (CCTrCH) (CCTrCH) mapping PhyCh mapping PhyCh mapping Physical Channel Physical Channel Data Streams Data Streams

Figure 19: Associated DCH with HS-DSCH model for 1.28Mcps TDD

Cell 1

Associating DCH with HS-DSCH, the model enables in the SS:

- to define MAC-hs and multiplexing of logical channels DTCHs onto MAC-d flows;
- to configure HS-DSCH transport channel and MAC-d flows;

Phy CH HS-SICH

- to configure HS-PDSCHs and HS-SCCHs;
- to define the H-RNTI value.

DPCH's → Phy CH

6.12b DCH with HS-DSCH (MAC-ehs) model (FDD, Rel-7 or later)

The test model illustrates the relationship between various channels from logical channels to physical channels. All DCH are associated with a single HS-DSCH.

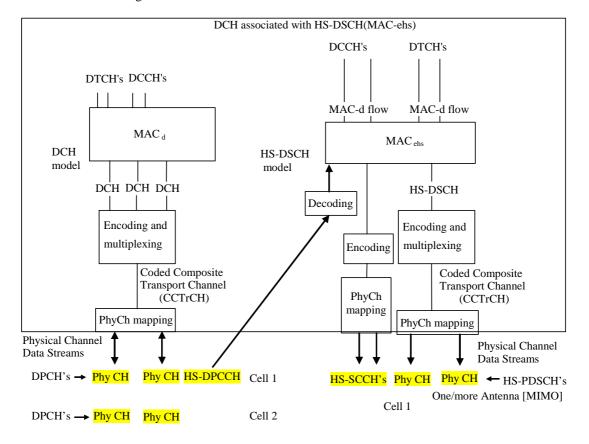


Figure 20: Associated DCH with HS-DSCH model

Associating DCH with HS-DSCH, the model enables in the SS:

- to define MAC-ehs and multiplexing of logical channels DTCHs & DCCHs onto MAC-d flows;
- to configure HS-DSCH transport channel and MAC-d flows;
- to configure HS-PDSCHs and HS-SCCHs;
- to define the H-RNTI value.
- to configure MIMO;

6.12c HS-DSCH (MAC-hs/ehs) model (FDD, Rel-7 or later)(No DCH Associated)

The test model illustrates the relationship between various channels from logical channels to physical channels.

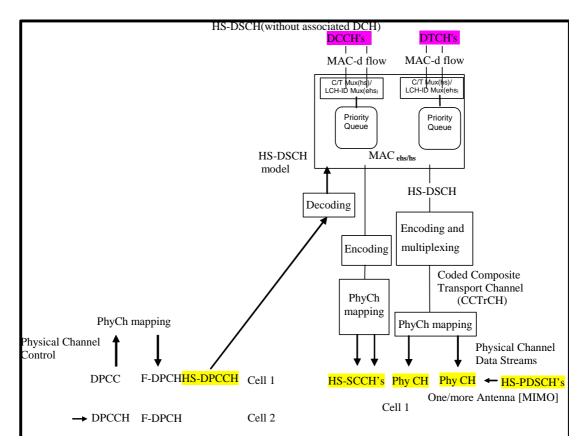


Figure 21: HS-DSCH model without DCH associated

The model enables in the SS:

- to define MAC-ehs/hs and multiplexing of logical channels DTCHs & DCCHs onto MAC-d flows;
- to configure HS-DSCH transport channel and MAC-d flows/MAC-ehs Queues;
- to configure HS-PDSCHs and HS-SCCHs;
- to define the H-RNTI value(s);
- to configure MIMO;

6.13 E-DCH model (Rel-6 or later)

The E-DCH model illustrates the relationship between various channels from logical channel to physical channels. In this model the TTCN writer can:

- define MAC-e/es and multiplexing of logical channels onto MAC-d flows;
- configure E-DCH transport channel and MAC-d flows;
- configure E-DPDCH, E-DPCCH, E-HICH, E-RGCH and E-AGCH.

MAC-es and the served RLC are cell-independent and are configured by using the cell-id = -1. During reconfigurations, cell changes and state transitions, the relevant counters in the RLC are maintained.

For the reason of simplicity, the E-DCH testing model does not shown the relation between E-DCH and related DCH and HS-DPCH, however the TTCN writer shall understand that the E-DCH active set is a subset of the DCH active set, when configuring E-DCH in the SS the TTCN writer shall keep this requirement respected.

During the active set updating (soft handover), the test case configurations may involve more than one cell. Those cells are under the control of the same Node B (intra-node) or under several Node B's (inter-node). For the signalling testing no macro diversity is required in the SS. In such test configurations only one E-DPDCH is necessary to be configured (together with corresponding E-DCH) for each Node B. Preferably, the E-DPDCH in the serving E-DCH cell controlled by the serving Node B is chosen for the configuration. In the inter-node soft handover cases, the E-DPDCH in a Non-serving RL cell of another Node B may require to be configured, instead of the one in the serving E-DCH cell. When the configuration involves several Node B's only one MAC-e (Node B) is necessary to be connected to the MAC-es. All possible connections are represented by dashed line and the preferable connection is the connection between MAC-es and the Node B controlling the serving E-DCH cell.

Since the UL-DPCH is needed as reference channel for the E-DPCCH the UL-DPCH is configured in every cell where an E-DCH is configured (i.e. in serving and non-serving cell). In order to simplify the implementation and to avoid macro diversity in all non-serving cells the UL-DPCH is configured without the associated transport channel configuration, i.e. the physical channel is not connected to MAC-d.

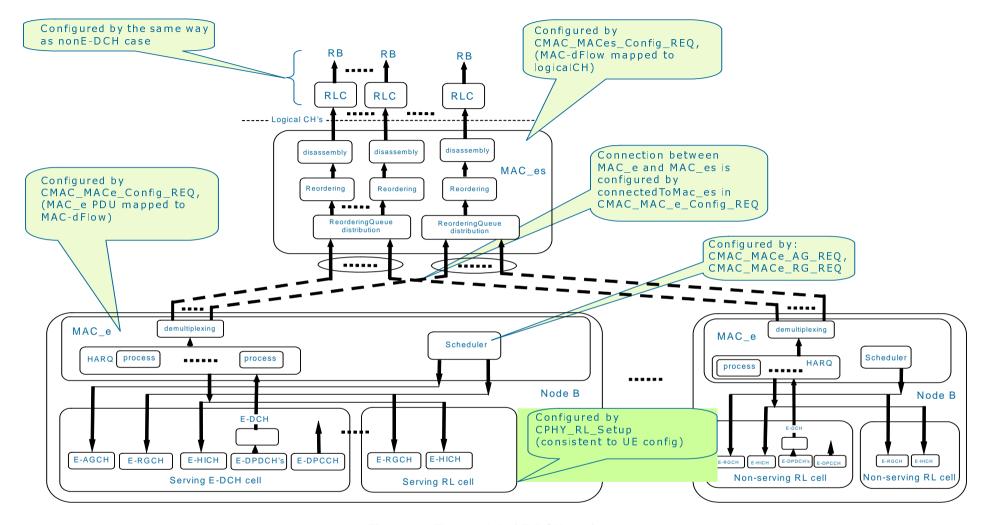


Figure 22: The model of E-DCH testing

6.14 MBMS model (Rel-6 or later)

The MBMS test model illustrates the relationship between various channels, from logical channel to physical channels applied to the MBMS test. The MBMS-dedicated stand-alone SCCPCH, MICH, MAC-m, MCCH, MSCH and MTCH are configured by the TTCN.

During softcombining, MTCHs which have the same logical channel identity but in different cells are connected to the same UM RLC.

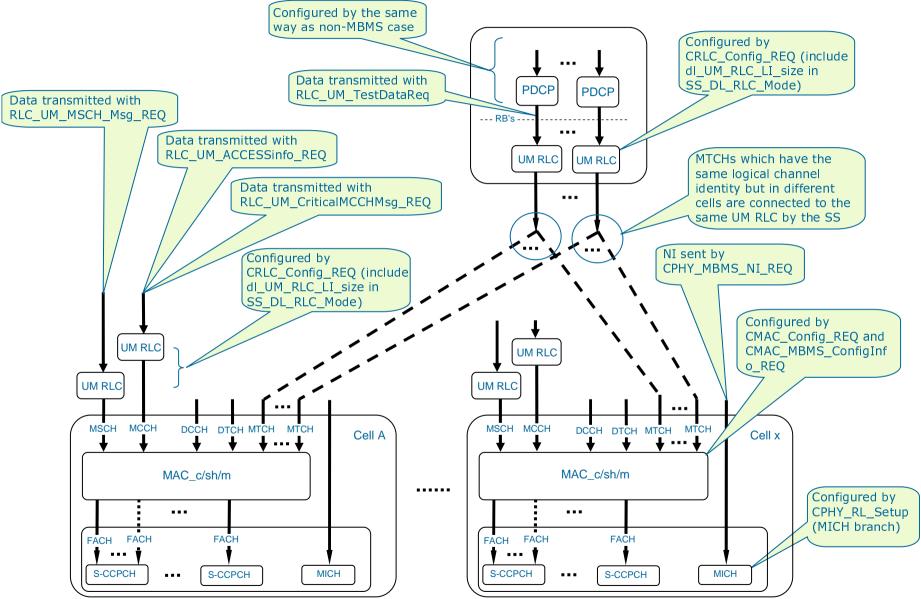


Figure 23: The model of MBMS testing

6.14.1 MBMS RLC test model

6.14.1.1 RLC test model for MTCH test

For RLC tests on MTCH a TR radio bearer is configured (tsc_RB_MTCH_RLC_TR). Similar to the UM mode, data scheduling is applied at the test.

When reconfiguring back from TR to UM mode, MAC is reconfigured and RLC is released/reconfigured again. It implies that UM will restart with sequence number 0; the corresponding RLC state variables are set to 0. Sequence numbers between the one used in the last PDU sent in TR mode and the sequence number 0 are considered by the UE as lost sequence numbers and shall have no impact on the test in the UM mode.

6.14.1.2 RLC test model for MCCH test

For RLC tests the MCCH critical messages can be sent as a DL sequence of PER encoded UM RLC PDUs in RLC TR mode. To achieve this, the normal UM radio bearer on MCCH is replaced with a TR radio bearer configured with a negative RB Id (tsc_RB_MCCH_RLC_TR). This is achieved by reconfiguring MAC and releasing the existing RLC UM entity /configuring a new TR RLC entity. It results in only one RLC entity being able to map on MCCH at the test.

It is assumed that the necessary MCCH data are completely sent out before the reconfiguration procedure mentioned above takes place.

When changing from UM to TR the care should be taken on the sequence numbers used in the RLC PDUs. That can be achieved by querying the SN from SS with CRLC_SequenceNumber_REQ. When changing back to UM the RLC may continue with the sequence number following the last sequence number used before changing to TR mode. That implies, the UM part of the RLC in SS does not need to take care of the UM PDUs sent in TR mode. The UE will regard it as PDU lost.

To support re-synchronization the 'specialLI' of the RLC_UM_CriticalMCCHMsg_REQ following TR mode can be set to TRUE.

7 PCO and ASP definitions

7.1 NAS PCO and ASP definitions

7.1.1 NAS PCO Definitions

Table 3: Dc PCO Type Declarations

PCO Type Declarations		
PCO Type Dc_SAP		
Role	LT	
Comments	The PCO type for NAS testing	

Table 4: Dc PCO Declarations

PCO Declarations		
PCO Name	Dc	
PCO Type	Dc_SAP	
Role	LT	
Comments Carry transmission and reception of NAS messages		

7.1.2 Primitives used at Dc PCO

The Dc PCO is used to transmit and receive NAS (MM, CC, SM, SS) messages. Two categories of primitives are operated at the Dc PCO:

- RRC_DataReq for transmission of a NAS PDU;
- RRC DataInd for reception of a NAS PDU.

These primitives are declared in TTCN tabular form, see Table 21.

Table 5: Primitives used at the Dc PCO

Primitive	Parameters	Use
RRC_DataInd	Cell identity	The ASP is used to indicate the receipt of a NAS
	INTEGER (-31 32)	message using acknowledged operation
	LogicChGSM	
	SapId	
	CN domain id	
	START	
	NAS message	
RRC_DataReq	Cell identity	The ASP is used to request the transmission of a NAS
	INTEGER (-31 32)	message using acknowledged operation
	LogicChGSM	
	SapId	
	CN domain id	
	NAS message	

The RB Identity and CN domain parameters defined in the primitives are mandatory for UTRAN and not applicable for GERAN.

The START parameter is mandatory in INITIAL DIRECT TRANSFER; each time when it is received the new START shall be downloaded to the SS to reinitialize counters-C and counters-I.

The LogicChGSM and SapId parameters are mandatory for GERAN and not applicable for UTRAN. They are defined because they may be used for future TTCN test cases.

Except the initial, uplink and downlink direct transfer procedures, the NAS TTCN specification uses the TTCN test steps to realize all RRC functions for testing. The single layer test concept is kept for the NAS tests.

A simple RRC emulation shall be maintained for the NAS tests. It has four functions:

- Emulate the three direct transfer procedures.
- Convert the NAS downlink messages defined in 3GPP TS 24.008 [9] in table format to the NAS message in ASN.1 octet string specified in 3GPP TS 25.331 [21]. Convert the NAS uplink message in the reverse way.
- PER encoding and decoding.
- Have the integrity protection.

RB3 and RB4 are specifically used for the NAS signalling. When an uplink message entered the receiving buffer at AM-SAP from the RLC emulation, either an RRC test step if running will take it out; or the RRC emulation if running will pick the received message from the buffer. Activation of any RRC test steps and activation of any NAS test steps at the same time shall be excluded in TTCN (no concurrency between them).

7.2 Ut PCO and ASP definitions

7.2.1 Ut PCO Declarations

The Ut PCO is served as the interface to the UE EMMI for remote control of operations, which have to be performed during execution of a test case such as to switch the UE on/off, initiate a call, etc.

Table 6: Declaration of the uppertester PCO type

PCO Type Declarations	
PCO Type	MMI
Role	UT
Comments	The PCO type for MMI or EMMI of the upper tester

Table 7: Declaration of the Ut PCO

PCO Declarations	
PCO Name	Ut
PCO Type	MMI
Role	UT
Comments	Carry transmission commands and reception of results for the upper tester

7.2.2 Primitives used at Ut PCO

The Ut PCO is used to indicate to the upper tester actions and to receive the acknowledgement of these actions. The AT commands are used wherever the suitable commands exist within 3GPP TS 27.007 [23], 3GPP TS 27.005 [22] and 3GPP TS 27 060 [24]. An MMI command is used, when AT commands does not exit for the action to performed. The primitives used at the Ut PCO, are declared in TTCN tabular form, see the table 21.

Table 8: Primitives used at the Ut PCO

Primitive	Parameters	Use
AT_CmdReq	Command: IA5String SMS_BlockMode: HEXSTRING	Request an AT command to the upper tester.
AT_CmdInd	Command: IA5String SMS_BlockMode: HEXSTRING	Indication of a result from the upper tester.
AT_CmdCnf	Result: BOOLEAN ResultString: IA5String SMS_BlockMode: HEXSTRING	Return a positive or negative result from the command previously sent. Both the Boolean result and String parameter are optional.
MMI_CmdReq	Command: IA5String	Request a command to the upper tester.
MMI_CmdCnf	Result: BOOLEAN ResultString: IA5String	Return a positive or negative result from the command previously sent. The String parameter is optional.

The AT_CmdReq primitive for sending AT commands is mostly used to trigger electronically an uplink access, such as initiating of a call, attaching or detaching, starting packet data transfer etc. The MMI_primitive is defined mainly for observation of some test events via a test operator, such as checking DTMF tone or checking called party number, etc.

The AT_CmdInd primitive for receiving AT commands is mostly used to transfer unsolicited result codes from the UE to the lower tester.

The SMS_BlockMode parameter is used to control and observe the Block mode procedure for SMS. This parameter is not yet used; it is defined for future development. The Command and SMS_BlockMode parameters are mutually exclusive

For the Command in the AT_CmdReq and AT_CmdInd primitives, the verbose format is used as defined in 3GPP TS 27.007 [23]. For the Command in MMI_CmdReq, just a descriptive IA5 string line, like "Check DTMF tone" is used.

7.3 RRC PCO and ASP definitions

7.3.1 AM/UM/TM PCO and ASP definitions

7.3.1.1 SAP and PCO for data transmission and reception

Table 9: Declaration of the RRC PCO Type

PCO Type Definition		
PCO Type	PCO Type DSAP	
Role	LT	
Comment	DATA transmission and reception	

Table 10: PCO TM declaration

PCO Type Definition	
PCO Name	TM
PCO Type	DSAP
Role	LT
Comment	Carry Transparent Mode RLC PDU

Table 11: PCO AM declaration

PCO Type Definition	
PCO Name	AM
PCO Type	DSAP
Role	LT
Comment	Carry Acknowledged Mode RLC PDU

Table 12: PCO UM declaration

PCO Type Definition	
PCO Name	UM
PCO Type	DSAP
Role	LT
Comment	Carry Unacknowledged Mode RLC PDU

Table 13: PCO BMC declaration

PCO Type Definition		
PCO Name	BMC	
PCO Type	DSAP	
Role	LT	
Comment	Provide Unacknowledged Mode BMC data transmission service	

7.3.2 Control PCO and ASP

7.3.2.1 SAP and PCO for control primitives transmission and reception

Table 14: SAP declaration

PCO Type Definition		
PCO Type	CSAP	
Role	LT	
Comment	Control primitives transmission and reception	

Table 15: PCO CPHY

PCO Definition	
PCO Name	CPHY
PCO Type	CSAP
Role	LT
Comment	Control Physical Layer

Table 16: PCO CRLC

PCO Definition		
PCO Name	CRLC	
PCO Type	CSAP	
Role	LT	
Comment	Control RLC Layer	

Table 17: PCO CMAC

PCO Definition	
PCO Name	CMAC
PCO Type	CSAP
Role	LT
Comment	Control MAC Layer

Table 18: PCO CBMC

PCO Definition		
PCO Name	CBMC	
PCO Type	Гуре CSAP	
Role	LT	
Comment	Control BMC Layer	

Table 19: ExternalAsn1Codec declaration

PCO Type Definition	
PCO Type ExternalAsn1Codec	
Role	LT
Comment	Control decoder primitives transmission and reception

Table 20: PCO CCodec

PCO Definition	
PCO Name CCodec	
PCO Type ExternalAsn1Codec	
Role LT	
Comment	Control asn.1 CONTAINING decoder

7.3.2.2 Control ASP Type Definition

7.3.2.2.1 CPHY_AICH_AckModeSet

ASN.1 ASP Type Definition			
Type N	Name	CPHY_AICH_AckModeSet_REQ	
PCO 1	Гуре	CSAP	
Comn	nent	To request for setting of AICH Acknowledge Mode	
	Type Definition		
SEQUENCE }	{ cellId routingI: ratType aICH_Mode	RatType,	

ASN.1 ASP Type Definition				
Type Name	Type Name CPHY AICH AckModeSet CNF			
PCO Type	PCO Type CSAP			
Comment	Comment To confirm setting of AICH Acknowledge Mode			
	Type Definition			
	cellId routingInfo	<pre>INTEGER(063), RoutingInfo</pre>		

	ASN.1 Type Definition		
Type N	ame	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 }	{ normal noAck negACK	(0), (1), (2)	

7.3.2.2.2 CPHY_Cell_Config

ASN.1 ASP Type Definition				
Type Name	Type Name CPHY_Cell_Config_CNF			
PCO Type	PCO Type CSAP			
Comment	Comment To confirm to setup the cell parameter			
Type Definition				
SEQUENCE { ce }	llId	INTEGER(063)		

	ASN.1 ASP Type Definition		
Type Name		CPHY_Cell_Config_REQ	
PCO T	Гуре	CSAP	
Comment To The def bel inte		defined as the number of behind or in advance, in a interpretations are valid for The primary scrambling of 16*primaryScramblingCo The unit of dLTxAttenuati	ne unit of sfnOffset is frame number. The sfnOffset is frames the SFN shall be shifted, i.e. the frames lagging comparison to a system reference time. The both or the test.
		Туре	e Definition
SEQUENCE	cellTxPor dLTxAtte	- yInfo cramblingCode_SS	<pre>INTEGER(063), INTEGER(038399), INTEGER(04095), FrequencyInfo, INTEGER(0511), CellTxPowerLevel, INTEGER(030 123), FrequencyBandFDD</pre>

ASN.1 Type Definition		
Type Name	CellTxPowerLevel	
Comment	tests. The real total of the individual phy	owerLvI is a default setting and is used for the most signalling cell DL Tx power level equals to the sum of the DL Tx power ysical channels configured. VerLvI applies to e.g. the idle mode tests in a non-default multient.
		Type Definition
	ultCellTxPowerLvl lCellTxPowerLvl	NULL, DL_TxPower

ASN.1 Type Definition			
Type Name	FrequencyBandFDD		
Comment	The frequency band indicator indicates how to interpret the radio frequency broadcast.		
	Type Definition		
CHOICE { frequencyBane frequencyBane }			

7.3.2.2.3 CPHY_Cell_Release

ASN.1 ASP Type Definition			
Type Name	CPHY_Cell_Release_CNF		
PCO Type	CSAP		
Comment	The confirmation to the CPHY_Cell_Release_Req		
	Type Definition		
SEQUENCE {	SEQUENCE {		
soft_Res			
cell_ID_1	List SEQUENCE (SIZE (18)) OF INTEGER(063) cell IDs		

ASN.1 ASP Type Definition		
Type Name	CPHY_Cell_Release_REQ	
PCO Type	CSAP	
Comment	 This Primitive with "Soft_Reset" flag ON gives a common known starting point/state of SS for a test case. The SS performs the following whenever it receives this primitive with "Soft_Reset" flag ON: Releases all configured Channels and cells (if any) irrespective of Cell ID list IE. Releases the associated Memory Buffers (if any). Cancels all active timers (if any) With "Soft_Reset" flag OFF: Releases cells listed in IE Cell_ID_List and associated configured Channels (if any) Releases the Memory Buffers(if any) associated with Cells listed in IE Cell_ID_List Cancels all active timers (if any) associated with Cells listed in IE Cell_ID_List. 	
Type Definition		
<pre>sequence {</pre>	et BOOLEAN, List SEQUENCE (SIZE (18)) OF INTEGER(063) cell IDs	

7.3.2.2.3a CPHY_Cell_TimingAdjust

tbd

7.3.2.2.3b CPHY_Detect_TFCI

ASN.1 ASP Type Definition		
Type Name	CPHY_DetectTFCI_CNF	
PCO Type	CSAP	
Comment	To confirm to CPHY_DetetTFCI_REQ	
Type Definition		
SEQUENCE {	INTEGER(063)), nfo RoutingInfo	

ASN.1 ASP Type Definition	
Type Name	CPHY_DetectTFCI_REQ
PCO Type	CSAP
	To set the mode of the SS for detecting whether the specified list of TFCI values occurred. Usage: At the SS initialization, the default mode is stop. When the mode is set to start, the SS shall detect whether the specified list of TFCI values (tfci_List) happens on the specified uplink physical channel. When happened the SS generates a CPHY_TFCI_Detected_IND and stop further detection. Otherwise keeps monitoring until a CPHY_DetectTFCI_REQ with mode = stop received.
	Type Definition
SEQUENCE {	<pre>ENUMERATED{start(0), stop(1)},</pre>

ASN.1 ASP Type Definition		
Type I	Name	CPHY_TFCI_Detected_IND
PCO.	Туре	CSAP
Comr	ment	To indicate the TFCI value specified in the CPHY_DetectTFCI_REQ has been detected.
		Type Definition
SEQUENCE	{ cellId routingI tfciValu	, , , , , , , , , , , , , , , , , , ,

ASN.1 Type Definition		
Type Name	TFCI_List	
Comment		
Type Definition		
SEQUENCE (SIZE (1	1024)) OF INTEGER (01023)	

7.3.2.2.4 CPHY_Ini

ASN.1 ASP Type Definition	
Type Name	CPHY_Ini_REQ
PCO Type	CSAP
Comment	Request to initialize the test
Type Definition	
ENUMERATED {	
<pre>defaultRadioEnvironment(0),</pre>	
nonDefaultMultiCell(1)	
[}	

ASN.1 ASP Type Definition		
Type Name	CPHY_Ini_CNF	
PCO Type	CSAP	
Comment	Confirm the test initialization	
	Type Definition	
SEQUENCE { confi:	rmation NULL	

7.3.2.2.5 CPHY_Cell_TxPower_Modify

ASN.1 ASP Type Definition		
Type Nam	е	CPHY_Cell_TxPower_Modify_CNF
PCO Type	9	CSAP
Comment	t	To confirm to change the DL power
Type Definition		
SEQUENCE {	ellId	INTEGER(063)

ASN.1 ASP Type Definition		
Type N	Name	CPHY_Cell_TxPower_Modify_REQ
PCO 1	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	{	
	cellId	INTEGER(063),
	dLTxAtte	nuationLevel INTEGER(040 123)
}		

7.3.2.2.6 CPHY_Frame_Number

ASN.1 ASP Type Definition			
Type Name	CPHY_Frame_Number_CNF		
PCO Type	CSAP		
Comment To return the requested connection frame number. The routingInfo indicates a physical channel.			
	Type Definition		
SEQUENCE { cellId routing: frameNur }	5 ,		

ASN.1 ASP Type Definition		
Type N	lame	CPHY_Frame_Number_REQ
PCO T	уре	CSAP
Comn		To request the physical layer to return a connection frame number on which the next message can be sent at the specified PCO on the specified logical channel. The return frame number shall leave time from current frame number in order to leave some execution time for TTCN preparing next message. The routingInfo indicates a physical channel
Type Definition		
SEQUENCE }	{ cellId routingIn	INTEGER(063), nfo RoutingInfo

7.3.2.2.6a CPHY_SFN (Rel-6 or later)

ASN.1 ASP Type Definition			
Type I	Name	CPHY_SFN_CNF	
PCO	Туре	CSAP	
indicates the P-CC In MBMS the MIC		To return the requested system frame number of the cell. The routingInfo indicates the P-CCPCH physical channel. In MBMS the MICH Connection Frame Number (CFN) corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located.	
	Type Definition		
SEQUENCE }	{ cellId routingIr currentSF	5 ,	

	ASN.1 ASP Type Definition		
Type N	Name	CPHY_SFN_REQ	
PCO T	Туре	CSAP	
Comr		To request the physical layer to return the current SFN of the cell. The routingInfo indicates the P-CCPCH physical channel. In MBMS the MICH Connection Frame Number (CFN) corresponds to the Cell SFN of the frame in which the start of the S-CCPCH frame is located. The timing of S-CCPCH relative to P-CCPCH can be configured as timingOffSet in steps of 256 chips.	
Type Definition			
SEQUENCE	{ cellId routingIn	INTEGER(063), fo RoutingInfo	

7.3.2.2.6b CPHY_MBMS_MICH_q (Rel-6 or later)

ASN.1 ASP Type Definition			
Type I	Name	CPHY_MBMS_MICH_q_CNF	
PCO.	Туре	CSAP	
Comr	nent	To confirm CPHY_MBMS_MICH_q_REQ. The routingInfo indicates the MICH physical channel.	
	Type Definition		
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo	

ASN.1 ASP Type Definition		
Type N	lame	CPHY_MBMS_MICH_q_REQ
PCO 1	Гуре	CSAP
MICH param param The n		To request the physical layer to transmit MBMS notification Indicators on the MICH physical channel. The transmission shall start on the SFN specified by the parameter mICHCFN and be continued for one modification period indicated by parameter modiCoefficent. The routingInfo indicates the MICH physical channel. The notification indicators to be transmitted are specified by the parameter indicatorList.
		Type Definition
SEQUENCE	{ cellId routingIn mICHCFN modiPerio indicato:	MICH_CFN, odCoefficent INTEGER(710),

ASN.1 Type Definition		
Type Name	MBMS_q_List	
Comment	The maximum number of notification indicators per frame for the nn18 alternative	
	is 18.	
	The maximum number of notification indicators per frame for the nn36 alternative	
	is 36.	
	The maximum number of notification indicators per frame for the nn72 alternative	
	is 72.	
	The maximum number of notification indicators per frame for the nn144	
	alternative is 144	
	Type Definition	
CHOICE {		
	Q_List18,	
	Q_List36,	
	Q_List72,	
nn144	Q_List144	
}		

ASN.1 Type Definition		
Type Name	Q_List18	
Comment	This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf18q, each value of ListOf18q is also a list of (118) values of INTEGER. The first value of ListOf18q is corresponding to the MICH frame which starts the modification period, the second value of ListOf18q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf18q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf18q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf18q corresponding to the MICH frame. (see TS25.211 subclause 5.3.3.15)	
	Type Definition	
CHOICE {		
	SEQUENCE SIZE((128)) OF ListOf18q,	
fRM256	SEQUENCE SIZE((256)) OF ListOf18q,	
fRM512	SEQUENCE SIZE((512)) OF ListOf18q,	
fRM1024 }	SEQUENCE SIZE((1024)) OF ListOf18q	

ASN.1 Type Definition		
Type Name	ListOf18q	
Comment	This type holds (118) values of the 'q' for a MICH frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:	
	$q = \left\lfloor ((C \times (NI \oplus ((C \times SFN) \mod G))) \mod G) \times \frac{Nn}{G} \right\rfloor$ where: G =2 ¹⁶ , C = 25033;	
	NI = Notification Indicator (065535) is computed by the TTCN for each TMGI according to the formula: $NI = (TMGI + \lfloor TMGI/G \rfloor) \mod G \text{ where } G = 2^{16};$	
	the number of TMGI could be 1 to 18; SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs;	
	Nn = the number of notification indicators per frame:	
Type Definition		
SEQUENCE (SIZE(118)) OF INTEGER (017)	

ASN.1 Type Definition		
Type Name	Q_List36	
Comment	This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf36q, each value of ListOf36q is also a list of (136) values of INTEGER. The first value of ListOf36q is corresponding to the MICH frame which starts the modification period, the second value of ListOf36q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf36q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf36q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf36q corresponding to the MICH frame. (see TS25.211 subclause 5.3.3.15)	
	Type Definition	
CHOICE {		
fRM128	SEQUENCE (SIZE(128)) OF ListOf36q,	
fRM256	SEQUENCE (SIZE(256)) OF ListOf36q,	
fRM512	SEQUENCE (SIZE(512)) OF ListOf36q,	
fRM1024	SEQUENCE (SIZE(1024)) OF ListOf36q	

ASN.1 Type Definition		
Type Name	ListOf36q	
Comment	This type holds (136) values of the 'q' for a frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:	
	$q = \left[((C \times (NI \oplus ((C \times SFN) \mod G)))) \mod G) \times \frac{Nn}{G} \right]$	
	where: $G = 2^{16}$, $C = 25033$;	
	NI = Notification Indicator (065535) is computed by the TTCN for each TMGI	
	according to the formula:	
	$NI = (TMGI + \lfloor TMGI / G \rfloor) \mod G$ where $G = 2^{16}$;	
	the number of <i>TMGI</i> could be 1 to 36;	
	SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH	
	radio frame occurs;	
	Nn = the number of notification indicators per frame:	
Type Definition		
SEQUENCE (SIZE(136)) OF INTEGER (035)		

ASN.1 Type Definition		
Type Name	Q_List72	
Comment	This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf72q, each value of ListOf72q is also a list of (172) values of INTEGER. The first value of ListOf72q is corresponding to the MICH frame which starts the modification period, the second value of ListOf72q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf72q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf72q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf72q corresponding to the MICH frame. (see 3GPP TS 25.211 [40] subclause 5.3.3.15)	
Type Definition		
CHOICE {		
fRM128	SEQUENCE (SIZE(128)) OF ListOf72q,	
fRM256	SEQUENCE (SIZE(256)) OF ListOf72q,	
fRM512	SEQUENCE (SIZE(512)) OF ListOf72q,	
fRM1024	SEQUENCE (SIZE(1024)) OF ListOf72q	

ASN.1 Type Definition	
Type Name	ListOf72q
Comment	This type holds (172) values of the 'q' for a frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:
	$q = \left[((C \times (\text{NI} \oplus ((C \times SFN) \mod G)))) \mod G) \times \frac{Nn}{G} \right]$ where: G = 2 ¹⁶ , C = 25033;
	NI = Notification Indicator (065535) is computed by the TTCN for each TMGI according to the formula: $NI = \left(TMGI + \left\lfloor TMGI / G \right\rfloor\right) \mod G \text{ where } G = 2^{16};$
	the number of <i>TMGI</i> could be 1 to 72; SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs;
	Nn = the number of notification indicators per frame:
	Type Definition
SEQUENCE (SIZE(172)) OF INTEGER (071)

ASN.1 Type Definition		
Type Name	Q_List144	
Comment	This type is a list which holds 128 or 256 or 512 or 1024 values of ListOf144q, each value of ListOf144q is also a list of (1144) values of INTEGER. The first value of ListOf144q is corresponding to the MICH frame which starts the modification period, the second value of ListOf144q is corresponding to the next MICH frame in the modification period and so on, the last value of ListOf144q is corresponding to the last MICH frame of the modification period. Be noted that for different modification period configurations the number of values of ListOf144q are different and shall match the configuration. The SS sets the bits {b0,, b287} of the MICH frame according to the INTEGER values in the ListOf144q corresponding to the MICH frame. (see 3GPP TS 25.211 [40] subclause 5.3.3.15)	
	Type Definition	
CHOICE {		
fRM128	SEQUENCE (SIZE(128)) OF ListOf144q,	
fRM256	SEQUENCE (SIZE(256)) OF ListOf144q,	
fRM512	SEQUENCE (SIZE(512)) OF ListOf144q,	
fRM1024	SEQUENCE (SIZE(1024)) OF ListOf144q	

ASN.1 Type Definition	
Type Name	ListOf144q
Comment	This type holds (1144) values of the 'q' for a frame which MICH CFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs The values of q are calculated by TTCN according to formula:
	$q = \left[((C \times (NI \oplus ((C \times SFN) \mod G))) \mod G) \times \frac{Nn}{G} \right]$ where: G = 2 ¹⁶ , C = 25033;
	NI = Notification Indicator (065535) is computed by the TTCN for each TMGI according to the formula: $NI = \left(TMGI + \left TMGI / G \right \right) \mod G \text{ where } G = 2^{16};$
	the number of <i>TMGI</i> could be 1 to 144; SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH radio frame occurs;
	Nn = the number of notification indicators per frame: Type Definition
SEQUENCE (SIZE(1144)) OF INTEGER (0143)	

ASN.1 Type Definition		
Type Name	MICH_CFN	
Comment	Subclause 9.2.1.46a of TS 25.433	
Type Definition		
INTEGER (04095)		

7.3.2.2.6c CPHY_MBMS_NI (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CPHY_MBMS_NI_CNF	
PCO Type	CSAP	
Comment	To confirm CPHY_MBMS_NI_REQ. The routingInfo indicates the MICH physical channel.	
	Type Definition	
SEQUENCE { cellId routingInfo	INTEGER(063), RoutingInfo	
}		

	ASN.1 ASP Type Definition	
Type Name	CPHY_MBMS_NI_REQ	
PCO Type	CSAP	
	To request the physical layer to transmit MBMS Notification Indicators on the MICH physical channel. The transmission shall start on the SFN specified by the parameter startingTime and be continued for one modification period indicated by parameter modiPeriodCoefficent. The routingInfo indicates the MICH physical channel. The notification indicators to be transmitted are specified by the parameter indicatorList. If value of invert is TRUE, all notification indicators Nq are set to '0' and all other indicators are set to '1'.	
	Type Definition	
SEQUENCE { cellId routingInfo startingTime modiPeriodCod nIList invert }		

ASN.1 Type Definition		
Type N	lame	MBMSIndicatorList
Comm	nent	The TTCN calculates Notification Indicator (NI, 065535) for each TMGI according to the formula: $NI = (TMGI + TMGI/G) \mod G$ where $G = 2^{16}$ and sends these NI to the SS by
		the MBMSIndicatorList;
		The SS shall calculate the q values for every MICH frame of a modification period according to formula:
		$q = \left\lfloor ((C \times (NI \oplus ((C \times SFN) \mod G)))) \mod G) \times \frac{Nn}{G} \right\rfloor$
		where: G = 2 ¹⁶ , C = 25033;
		SFN = the SFN of the P-CCPCH radio frame during which the start of the MICH
		radio frame occurs;
		Nn = the number of notification indicators per frame:
		Then the SS sets the bits {b0,, b287} of the MICH frame according to the
		calculated q values which corresponds to the MICH frame. (see
		3GPP TS 25.211 [40] subclause 5.3.3.15)
		Type Definition
CHOICE {		
nn18		(SIZE(118)) OF SEQUENCE { nI INTEGER (065535)},
nn36		(SIZE(136)) OF SEQUENCE { nI INTEGER (0 65535)},
nn72		(SIZE(172)) OF SEQUENCE { nI INTEGER (0 65535)},
nn144 }	SEQUENCE	(SIZE(1144)) OF SEQUENCE { nI INTEGER (0 65535)}

7.3.2.2.7 CPHY_Out_of_Sync

ASN.1 ASP Type Definition		
Type Na	ıme	CPHY_Out_of_Sync_IND
PCO Ty	/pe	CSAP
Comment		To report that the physical channel synchronization (in FDD mode, sync with uplink DPCCH) was lost as detected by the SS receiver.
		Type Definition
	{ cellId routingIn	INTEGER(063), nfo RoutingInfo

7.3.2.2.8 CPHY_PRACH_Measurement

ASN.1 ASP Type Definition			
Type I	Type Name CPHY_PRACH_Measurement_CNF		
PCO '	PCO Type CSAP		
Comment To Co		To Confirm PRACH Measurement Req	
	Type Definition		
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo	

ASN.1 ASP Type Definition				
Type N	Name	CPHY_PRACH_Measurement_REQ		
PCO 1	Гуре	CSAP		
Comn	nent	To request for Start or Stop of PRACH Measurements to be done every PRACH		
		PREAMBLE or MESSAGE received.		
	Type Definition			
SEQUENCE }	{ cellId routingI: ratType pRACH_Me.	INTEGER(063), info RoutingInfo, RatType, assurementInd 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
<pre>ENUMERATED { startMea stopMeas }</pre>	,

ASN.1 ASP Type Definition		
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	INTEGER(063),	
routing	Info RoutingInfo,	
ratType RatType,		
measure	mentReport PRACH_MeasurementReport	
}		

ASN.1 Type Definition				
Type I	Name	PRACH_Measure	rementReport	
Comment				
Type Definition				
SEQUENCE		H_AcessSlot H_Signature	INTEGER (014), INTEGER (015) OPTIONAL	
}				

7.3.2.2.9 CPHY_RL_Modify

ASN.1 ASP Type Definition				
Type Na	ame	CPHY_RL_Modify_CNF		
PCO Type CSAP				
Comm	To confirm to modify the Radio Link			
		Type Definition		
SEQUENCE {		INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition				
Type Name	Name CPHY_RL_Modify_REQ			
PCO Type	PCO Type CSAP			
Comment				
	HardHandover (PhysicalCh	hannelReconfig)		
	ChannelizationCodeChang	ge		
	FrequencyChange			
	PhysicalChannelModifyFor	rTrCHReconfig		
	CompressedMode(PhysicalChannelReconfig)			
	Re_Synchronized HardHandover			
	Softhandover			
	Type I	Definition		
SEQUENCE {				
cell	Id INT	TEGER(063),		
	3	utingInfo,		
ratT		Type,		
modi	fyMessage Cph	nyRlModifyReq		
}				

ASN.1 Type Definition						
Type Name	CphyRIModifyReq					
Comment						
	Type D	efinition				
SEQUENCE {						
activationTime	SS_Activ	vationTime,				
physicalChannelI	nfo					
CHOICE {						
dpch_Com	pressedModeStatusInfo	Dpch_Co	ompressedModeStatusInfo	,		
secondar	yCCPCHInfo Seco	ondaryCCPCHI	Info,			
pRACHInfo	o PRAC	CHInfo,				
dPCHInfo	DPCF	HInfo,				
dPCHInfo	_r5 DPCF	HInfo_r50rLa	ater, Rel-5 or later			
hS PDSCH	Info HS I	HS_PDSCHInfo_r5OrLater, Rel-5 or later				
e DPCHIn	fo SS I	SS_E_DPCH_Info_r6OrLater, Rel-6 or later				
e_AGCHIn:	fo SS_I	SS_E_AGCH_Info, Rel-6 or later				
e_HICHIn:	fo SS_I	SS_E_HICH_Info, Rel-6 or later				
e RGCHIn	fo SS I	E RGCH Info,	Rel-6 or later			
mBMS MICHInfo		MBMS MICHCon	nfigurationInfo r6			
_	F	$Rel-\overline{6}$ or lat	ter			
},	},					
trchConfigTo	Follow	BOOLEAN	DEFAULT TRUE			
}						

ASN.1 Type Definition			
Type Name	SS_ActivationTime		
Comment			
Type Definition			
CHOICE { activationCFN			

7.3.2.2.10 CPHY_RL_Release

ASN.1 ASP Type Definition				
Type Name	CPHY_RL_Release_CNF			
PCO Type CSAP				
Comment	PHY emulator confirms that a specified physical channel has been released.			
Type Definition				
SEQUENCE {	INTEGER(063), nfo RoutingInfo			

ASN.1 ASP Type Definition				
Type Name CPHY_RL_Release_REQ				
PCO Type CSAP				
Comment	To request to release the Radio Link			
Type Definition				
	INTEGER(063), ngInfo RoutingInfo, ationTime SS_ActivationTime			

7.3.2.2.11 CPHY_RL_Setup

ASN.1 ASP Type Definition				
Type Name CPHY_RL_Setup_CNF				
PCO Type CSAP				
Comment To con		confirm to setup the Radio Link		
	Type Definition			
	{ cellId routingIn	INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition				
Type Name	CPHY_RL_Setup_REQ			
PCO Type	CSAP			
Comment	To request to setup the associated transport channels and the Radio Link itself.			
Type Definition				
SEQUENCE { cellId routingI ratType setupMes	RatType,			
}				

```
ASN.1 Type Definition
        Type Name
                                  CphyRISetupReq
        Comment
                                  To request to setup the Radio Link
                                                              Type Definition
SEOUENCE
            E {
sicalChannelInfo CHOICE {
primaryCPICHInfo PrimaryCPICHInfo,
secondaryCPICHInfo SecondaryCPICHInfo,
primarySCHInfo PrimarySCHInfo,
primaryCCPCHInfo PrimaryCCPCHInfo,
primaryCCPCHInfo
      physicalChannelInfo
           primaryCPICHInfo
                                                       SecondaryCCPCHInfo,
            secondaryCCPCHInfo
            pRACHInfo
                                                          PRACHInfo,
            pICHInfo
                                                          PICHInfo,
                                                          AICHInfo,
            aICHInfo
                                              PDSCHInfo,
DPCHInfo_r5OrLater, -- Rel-5 or later
HS_PDSCHInfo_r5OrLater, -- Rel-5 or later
SS_E_DPCH_Info_r6OrLater, -- Rel-6 or later
SS_E_AGCH_Info, -- Rel-6 or later
SS_E_HICH_Info, -- Rel-6 or later
SS_E_RGCH_Info, -- Rel-6 or later
SS_E_RGCH_Info, -- Rel-6 or later
SS_MBMS_MICHCOnfigurationInfo r6
-- Rel-6 or later
            dPCHInfo
            pDSCHInfo
             dPCHInfo_r5
            hS_PDSCHInfo
            e_DPCHInfo
             e_AGCHInfo
            e_HICHInfo
             e_RGCHInfo
            mBMS MICHInfo
                                                                  -- Rel-6 or later
      activationTime
                                                  SS ActivationTime,
      trchConfigToFollow
                                                                               DEFAULT TRUE
                                                    BOOLEAN
```

	ASN.1 Type Definition				
Type Name Prin		PrimaryCPICHInfo			
Comm	Comment				
	Type Definition				
SEQUENCE }	_	er_PCPICH sityIndicator	DL_TxPower_PCPICH, BOOLEAN		

	ASN.1 Type Definition				
Type Name		SecondaryCPICHInfo			
Comment					
	Type Definition				
SEQUENCE {	scrambli dl_Chann dl_TxPow	elizationCode	<pre>INTEGER(015), SF512_AndCodeNumber, DL_TxPower</pre>		

ASN.1 Type Definition				
Type Name	PrimarySCHInfo			
Comment				
Type Definition				
SEQUENCE {				
tstdIr	dicator	BOOLEAN,		
dl_TxE	ower	DL_TxPower		
}				

	ASN.1 Type Definition				
Type	Type Name SecondarySCHInfo				
Com	ment				
	Type Definition				
SEQUENCE	SEQUENCE {				
	tstdIndicator BOOLEAN,				
	dl TxPower DL TxPower				
}					

	ASN.1 Type Definition			
Type I	Name	PrimaryCCPCHInfo		
Comi	ment			
		Type Definition		
SEQUENCE }	{ sttd_Ind dl_TxPow	, ,		

		ASN.1 Type Definition
Type Name	SecondaryCCPC	CHInfo
	6 dB, 0.25 dB pe mbms_softComb When configuring	werOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0 dB to er step. bTimingOffset is present when L1-combination applies g SCCPCH for MBMS 'positionFixedOrFlexible' shall be set to CPCHSlotFormat shall be chosen to the one without pilot bits
	riexible, and sco	Type Definition
SEQUENCE {	1	Nicolar Control of Con
scramblingCoddl_Channeliz: sCCPCHSlotFo: timingOffset positionFixed sttd_Indicate dl_TxPower powerOffsetO: powerOffsetO: mbms_softComl	ationCode rmat dOrFlexible or fTFCI_PO1	INTEGER(015), SF256_AndCodeNumber, SCCPCHSlotFormat, INTEGER (0149), PositionFixedOrFlexible, BOOLEAN, DL_TxPower, INTEGER (024), INTEGER (024), MBMS_SoftComb_TimingOffset OPTIONALRel-6 or later

	ASN.1 Type Definition					
Type Name	PRACHInfo					
Comment						
	Type Definition	n				
	CHOICE { ENCE { preambleSignature spreadingFactorForDataPart preambleScramblingCode puncturingLimit accessSlot	AvailableSignatures, SF_PRACH, PreambleScramblingCodeWordNumber, PuncturingLimit, AvailableSubChannelNumbers				
}, tdd	ENCE { timeSlot spreadingCode midambleCode	TimeSlot, SpreadingCode, MidambleCode,				

	ASN.1 Type Definition			
Type	Name	PICHInfo		
Comment				
			Type Definition	
SEQUENCE	{			
	pichinfo		PICH_Info,	
	dl_TxPow	er	PICH_PowerOffset,	
	sccpchId associated		INTEGER (031)	
}		_		

	ASN.1 Type Definition				
Type I	Name	AICHInfo			
Comr	ment				
			Type Definition		
SEQUENCE	{				
	aichinfo AICH Info,				
dl_TxPower		er	AICH_PowerOffset		
}					

	ASN.1 Type Definition				
Type I	Name	DPCHInfo			
Comi	ment	At least one of the fi	ields shall be pre	esent.	
			Type Definition	n	
SEQUENCE }	{ ul_DPCHI dl_DPCHI		L_DPCH_Info L_DPCHInfo	OPTIONAL, OPTIONAL	

	ASN.1 Type Definition				
Type I	Name	DL_DPCHInfo			
Comr	ment				
			Type Definition		
SEQUENCE	_	nInformation InfoPerRL mation	DL_CommonInformation, DL_DPCH_InfoPerRL, RL_Information		

	ASN.1 Type Definition				
Type N	Type Name HS_DPCCHInfo				
Comr	ment				
	Type Definition				
SEQUENCE	SEQUENCE {		CQI_RepetitionFactor, ACK_NACK_repetitionFactor		

	ASN.1 Type Definition				
Type I	Name	DL_DPCHInfo_r5			
Comr	ment	Applicable Rel-5 o	or later		
			Type Definition		
SEQUENCE		nInformation InfoPerRL mation	DL_CommonInformation_r5, DL_DPCH_InfoPerRL_r5, RL_Information		

ASN.1 Type Definition				
Type Name	DL_TxPower_PCPICH			
Comment Absolute Tx Power of PCPICH				
Type Definition				
NTEGER (-6030)				

ASN.1 Type Definition				
Type Name	DL_TxPower			
Comment	Downlink Tx Power relative to PCPICH			
Type Definition				
INTEGER (-35+15)				

ASN.1 Type Definition		
Type Name	SCCPCHSlotFormat	
Comment Reference to 3GPP TS25.211 [Error! Reference source not found.]		
Type Definition		
INTEGER (017)		

	ASN.1 Type Definition
Type Name	PDSCHInfo
Comment	
	Type Definition
SEQUENCE {	
fdd_tdd	CHOICE {
fdd	SEQUENCE {
	pdsch CodeMapping PDSCH CodeMapping
	},
tdd	SEQUENCE {
	pdsch Identity PDSCH Identity,
	pdsch_Info PDSCH_Info,
	pdsch_PowerControlInfo PDSCH_PowerControlInfo OPTIONAL
	},
dl_TxPower	DL_TxPower
}	

ASN.1 Type Definition			
Type Name DPCHInfo_r5OrLa		_ater	
Comment Applicable Rel-5 of		or later	
			o or dl_DPCHInfo shall be present.
			S-DPCCH shall be configured in the
			HS-DPCCH shall be configured in the
			hall be removed in the modify ASP.
			ore than one cell the HS-DPCCH is
		n the HS-DSCH serving cell.	
		ons are valid: ul_DPCH_Info	only dl DPCHInfo only and
	ul_DPCH_Info +		only, di_bi or inito only and
			UL DPCH being configured and
	l'	•	g configured indicates imply that
	UL_DTX is ena		
			mmands need not be transmitted
	during gaps due	to UL-DPCCH DTX (25.214,	5.1.2.2.1).
		Type Definition	
CHOICE {	ſ		
r5 SEQUENCE ul DPCHI	\info	UL DPCH Info r5	OPTIONAL,
dl_DPCHI		DL DPCHInfo r5	OPTIONAL,
hs DPCCH		HS DPCCHInfo	OPTIONAL
},			
r6 SEQUENCE	: {		
ul_DPCHI	info	UL_DPCH_Info_r6	OPTIONAL,
dl_DPCHI		DL_DPCHInfo_r6	OPTIONAL,
hs_DPCCH	IInd	HS_DPCCHInfo	OPTIONAL
	}, 		
	r7 SEQUENCE{ ul DPCHInfo		OPTIONAL,
dl DPCHINIO		UL_DPCH_Info_r7 DL DPCHInfo r7	OPTIONAL,
hs DPCCHInd		HS DPCCHInfo	OPTIONAL,
ss UL DPCCH DRX Info		SS UL DPCCH DRX Info	OPTIONAL,
ss_DTX_Info		DTX_Info	OPTIONAL
},			
spare2 SEQUENCE {}			
}			

	ASN.1 Type Definition		
Type Name DL_DPCHInfo_r6			
Comment Applicable Rel-6 For SS reconfiguration from DL-DPCH to F-DPCH and vice versa the dl_CommonInformation shall include the defaultDPCH_OffsetValue as additional information for SS even when this is not included in the corresponding RRC message sent to the UE and the timing is maintained.			
		Ty	ype Definition
SEQUENCE }	dl_Dpch_	nInformation InfoPerRL dl_DPCH_InfoPerRL dl_FDPCH_InfoPerRL }, mation	<pre>DL_CommonInformation_r6, CHOICE { DL_DPCH_InfoPerRL_r6, DL_FDPCH_InfoPerRL_r6 </pre> RL_Information

	ASN.1 Type Definition
Type Name	DL_DPCHInfo_r7
Comment	Applicable Rel-7 or later
	Type Definition
SEQUENCE { dl_CommonInforma dl_Dpch_InfoPerR dl_DPCH_Info dl_FDPCH_Info },	CHOICE { PerRL DL_DPCH_InfoPerRL_r7, DPerRL DL_FDPCH_InfoPerRL_r7
rl_Information }	RL_Information

ASN.1 Type Definition			
Type Name	SS_UL_DPCCH_DRX	<_Info	
Comment			
Type Definition			
SEQUENCE {			
ss_DRX_Info		DTX_Info	OPTIONAL,
dtx_DRX_timingInfo D		DTX_DRX_TimingInfo_r7	OPTIONAL,
uplink_DPCCHSlotFormatInformation Uplink_DPCCH_Slo		Uplink DPCCH Slot Forma	at Information
}			_

ASN.1 Type Definition			
Type Name	HS_PDSCHInfo_r5OrLater		
Comment	Applicable Rel-5 or later When CHY_RL_Setup_REQ is called with CHOICE of hS_PDSCHInfo HS_PDSCH and HS-SCCH shall be configured in SS. The following HS-DSCH related parameters are passed to the SS implicitly by HSDSCH_physical_layer_category: - Maximum number of HS-DSCH codes can be received by UE Minimum inter-TTI interval Maximum number of bits of an HS-DSCH transport block within an HS-DSCH TTI Total number of soft channel bits". HSDSCH_physical_Layer_category is also used for interpretation of the meaning of CQI value.		
	T	Type Definition	
CHOICE {	,		
r5 SEQUENCE hSDSCHPhysic h_RNTI dlHSPDSCHInf sttd_Indicat hs_SCCH_TXPO	or	HSDSCH_physical_layer_category, H_RNTI, DL_HSPDSCH_Information, BOOLEAN, DL_TxPower offset related to CPICH	
h_RNTI dlHSPDSCHInf sttd_Indicat hs_SCCH_TxPo r7 HS_PDSCHInfo	or wer }, _r7,	HSDSCH_physical_layer_category, H_RNTI, DL_HSPDSCH_Information_r6, BOOLEAN, DL_TxPower offset related to CPICH	
spare2 SEQUENCE }	\ }		

ASN.1 Type Definition Type Name HS PDSCHInfo r7 Comment Rel-7 or later. Choice of hS_PDSCH_Info will be used for configuring HSD-DSCH with 64QAM and/or CPC. Choice of common HS PDSCH Info will be used for Enhanced Cell FACH. commonOrDedicated H RNTI indicates, the H-RNTI that will be used by UE (either dedicated H-RNTI if provided in RRC message, or selected common H-RNTI transmitted in SIB5). The transmission of BCCH on HS-DSCH is performed by using BCCH specific H-RNTI on the first indexed HS-SCCH code indicated in system information Presence of ss_DTX_Info makes DL DRX to be enabled. Presence of hs_scch_LessInfo makes HS-SCCH less operation enabled. Presence of mimo_Parameters indicate MIMO is to be started. If mimo_Parameters include indicate S-CPICH as phase reference for Second antenna, SS shall automatically take care of configuring the required S-CPICH for second antenna. Absence of S-CPICH Channelisation code [i.e. P-CPICH is phase refernce even for second antennal, SS shall take care of transmitting P-CPICH over second antenna. The power-offset of S/P-CPICH over second antenna shall be same as P-CPICH of first antenna. MIMO and HS-SCCH less operation do not co-exist. MIMO is not applicable for non DCH states. The two IE 'hSDSCHPhysicalLayerCategory' and 'hsdsch_physical_layer_category_ext' are mutually exclusive. One of the IE shall be present in the SS configuration. The IE 'hsdsch_physical_layer_category_ext' is present only for UE categories greater than or equal to 13. Type Definition CHOICE { hS PDSCH Info SEQUENCE { hSDSCHPhysicalLayerCategory HSDSCH_physical_layer_category OPTIONAL, hsdsch_physical_layer_category_ext HSDSCH_physical_layer_category_ext OPTIONAL, h RNTI H RNTI, DL HSPDSCH_Information_r7, dlHSPDSCHInformation sttd Indicator BOOLEAN, hs SCCH TxPower DL_TxPower, -- offset related to CPICH OPTIONAL, ss DTX Info DRX Info hs scch LessInfo HS SCCH LessInfo r7 OPTIONAL. mimo Parameters MIMO Parameters r7 OPTIONAL common_HS_PDSCH_Info SEQUENCE hSDSCHPhysicalLayerCategory HSDSCH_physical_layer_category OPTIONAL, hsdsch_physical_layer_category_ext HSDSCH_physical_layer_category_ext OPTIONAL, commonOrDedicated_H_RNTI H_RNTI, bcchSpecific H RNTI H RNTI, hs scch SystemInfo HS SCCH SystemInfo, hs dsch PagingSystemInformation HS DSCH PagingSystemInformation OPTIONAL, sttd Indicator BOOLEAN, hs_SCCH_TxPower DL TxPower -- offset related to CPICH spare2 SEQUENCE SEQUENCE spare3

		ASN.1 Type Definition
Tv	pe Name	SS_E_DPCH_Info_r6OrLater
		Rel-6 or later.
If there is an UL-DPCH configured in the cell the E-DPCH shall use the same scramblingCodeType and scramblingCode as the UL-DPCH. Presence of ul_16QAM_Settings enables usage of 16QAM in UL. With 16QAM configured the value of 'E-TFCI table index' is increased by 2, and indices in the SG-Table refer to Scheduling Grant Table 2 in [17]. The two IE 'edch_PhysicalLayerCategory' and 'edch_PhysicalLayerCategory_extension' are mutually exclusive. One of the IE shall be present in the SS configuration. The IE 'edch_PhysicalLayerCategory_extension' is present only for UE categories greater than or equal to 7.		
		Type Definition
CHOICE	{	
r6	SEQUENCE {	
	e_DPCCH_Info e_DPDCH_Info scramblingCo scramblingCo tti edch_Physica	E_DPDCH_Info, deType ScramblingCodeType OPTIONAL,
-	}, SEQUENCE e_DPCCH_Info e_DPDCH_Info scramblingCo scramblingCo tti edch_Physica	{

ASN.1 Type Definition			
Type Name	SS_E_AGCH_Info		
Comment	Rel-6 or later.		
	Presence of ss_DTX_Info indicates DL_DRX is enabled and SS shall		
	transmit any requested AGCH only in occasions when UE will be		
	listening.		
	Type Definition		
SEQUENCE {			
e_AGCHInfo	E_AGCH_Information,		
tti	E_DCH_TTI,		
e_AGCH_Power	Offset INTEGER (0255)		
Range and Step are FFS (25.433, 9.2.2.13If)			
Offset relative to P-CPICH,			
e_RNTI_Primary E_RNTI OPTIONAL,			
e_RNTI_Secondary			
ss_DTX_Info	DRX_Info OPTIONAL Rel-7 or later		
}			

ASN.1 Type Definition			
Type Name S	SS_E_RGCH_Info		
Comment R	Rel-6 or later.		
P	resence of ss_DTX_Info indicates DL_DRX is enabled and SS shall transmit		
a	ny requested RGCH only in occasions when UE is going to listen.		
Type Definition			
SEQUENCE {			
e_RGCHInfo	E_RGCH_Information,		
tti	E_DCH_TTI,		
e_RGCH_PowerOffset INTEGER (0255),			
Range Range:-32 +31.75 dB, Step: 0.25 dB			
	Offset relative to P-CPICH		
ss_DTX_Info	DRX_Info OPTIONAL Rel-7 or later		
}			

	ASN.1 Type Definition		
Type Name	RL_Information		
Comment	powerOffsetOfPILOT_ The IE cfnTgtSfnFrame another cell in DCH sta The cfnTgtSfnFrameO SFN of the cell in whic The use of cfnTgtSfnF exclusive. The IE cfnTg configuring the RL in the synchronization inform DL_CommonInformatic In addition, TmTgt valu DL_DPCH_InfoPerRL_ calculated by the TTCI	h the RL is to be added. rameOffset and DOFF (Default DI gtSfnFrameOffset is omitted when he timing re-initialized hard hando hation is provided in defaultDPCH_ hon. he is provided to dpch_FrameOffset_TeaneOffs	step. nother RL or moving the UE to handover or in the softhandover. difference between the CFN and the PCH Offset Value) is mutually n configuring the 1 st RL, or ver where the required _offsetValue in et in DL_DPCH_InfoPerRL_r5 or t can be observed by the UE, or
		Type Definition	
SEQUENCE { powerOffsetO powerOffsetO powerOffsetO dl_TxPower dl_TxPowerMa dl_TxPowerMi cfnTgtSfnFra }	eftPC_PO2 efPILOT_PO3 x n	INTEGER (024), INTEGER (024), INTEGER (024), DL_TxPower, DL_TxPower, DL_TxPower, CfnTgtSfnFrameOffset	OPTIONAL

	ASN.1 Type Definition	
Type Name	CfnTgtSfnFrameOffset	
Comment	 The observedValue is provided if the UE reads SFN when measuring "Cell synchronization information" and sends it to the SS in MEASUREMENT REPORT message. The OFF value in IE COUNT-C-SFN frame difference is applied to the observedValue. If the synchronization between the target cell and the reference cell is calculated the calculatedAbsoluteValue is applied. Depending upon how to interpret SfnOffset two valid calculations exist. If SfnOffset is interpreted as the frames lagging behind: calculated_sfnLagging = (((4096 * 38400) + SfnOffset_Ref * 38400 + TCell_Ref + DOFF*512 - (SfnOffset_Tgt * 38400 + TCell_Tgt)) mod (256 * 38400)) / 38400 If SfnOffset is interpreted as the frames in advance: calculated_sfnInAdvance = (((4096 + SfnOffset_Tgt - SfnOffset_Ref) * 38400 + TCell_Ref + DOFF*512 - TCell_Tgt) mod (256 * 38400)) / 38400 The formula can be further simplified in the default condition if SfnOffset_Ref and TCell_Ref are equal to 0: calculated_sfnLagging = (((4096 * 38400)) + DOFF*512 - (SfnOffset_Tgt * 38400 + TCell_Tgt)) mod (256 * 38400)) / 38400 calculated_sfnLagging = (((DOFF*512 + SfnOffset_Tgt * 38400 - TCell_Tgt) Mod (256 * 38400)) / 38400 calculated_sfnInAdvance = ((DOFF*512 + SfnOffset_Tgt * 38400 - TCell_Tgt) Mod (256 * 38400)) / 38400 calculated_sfnInAdvance = (calculated_sfnLagging + 2* SfnOffset_Tgt) mod 256 calculated_sfnLagging = (calculated_sfnInAdvance + (4096 - SfnOffset_Tgt) * 2) mod 256 The TTCN provides calculated_sfnLagging. 	
Type Definition SEQUENCE {		
referenceCellId INTEGER(063), cfnFrameOffset CHOICE { observed INTEGER (0255), calculated INTEGER (0255) }		

ASN.1 Type Definition		
Type Name	SS_MBMS_MICHConfigurationInfo_r6	
Comment	Rel-6 or later.	
Type Definition		
SEQUENCE { michinfo		

7.3.2.2.12 CPHY_Sync

ASN.1 ASP Type Definition		
Type Name	CPHY_Sync_IND	
PCO Type	CSAP	
Comment	To indicate that p DPCCH) has bee	hysical channel synchronization (in FDD mode, sync with a chieved.
		Type Definition
SEQUENCE {	cellId routingInfo	<pre>INTEGER(063), RoutingInfo</pre>

7.3.2.2.12a CPHY_HS_DPCCH_AckNack (Rel-5 or later)

	ASN.1 ASP Type Definition		
Type N	lame	CPHY_HS_DPCCH_AckNack_CNF	
PCO T	уре	CSAP	
Comm	nent	Applicable Rel-5 or later	
		To Confirm CPHY_HS_DPCCH_AckNack_REQ	
		Type Definition	
SEQUENCE	{		
1	cellId	INTEGER(063)	
[]			

	ASN.1 ASP Type Definition		
Type N	ame	CPHY_HS_DPCCH_AckNack_REQ	
PCO T	уре	CSAP	
Comment		Applicable Rel-5 or later To request for start or stop reporting Ack/Nack received on the HS-DPCCH for the HARQ process hARQProcessId. Harq Process ID 07 represent the respective process Id with HS-SCCH type 1 operation. Value 15 is used for HS-SCCH less/HS-SCCH Type 2 operation. At the initialization the SS is at the "sTOPRep" state without reporting any Ack/Nack	
		Type Definition	
SEQUENCE }	{ cellId ratType ackNackRo hARQProce		

ASN.1 Type Definition		
Type Na	ame	AckNackReportReq
Comm	ent	Applicable Rel-5 or later
		startRep: The SS shall start reporting the HARQ-ACK information received on
		HS-DPCCH by primitive CPHY_HS_DPCCH_AckNack_IND on CPHY PCO.
		stopRep: The SS shall stop reporting.
		Type Definition
ENUMERATED	{	
	startRep	(0),
	stopRep	(1)
}		

	ASN.1 ASP Type Definition		
Type N	Name	CPHY_HS_DPCCH_AckNack_IND	
PCO T	Гуре	CSAP	
Comr	nent	Applicable Rel-5 or later	
		SS reportes the HARQ-ACK information received on HS_DPCCH, each received Ack/Nack generates a CPHY_HS_DPCCH_AckNack_IND Harq Process ID 07 represent the process Id with HS-SCCH type 1 operation. Value 15 is used for HS-SCCH less/HS-SCCH Type 2 operation.	
		Type Definition	
SEQUENCE	{ cellId ratType hARQ_ACK		

7.3.2.2.12b CPHY_HS_DPCCH_CQI (Rel-5 or later)

	ASN.1 ASP Type Definition		
Type N	lame	CPHY_HS_DPCCH_CQI_CNF	
PCO T	уре	CSAP	
Comm	nent	Applicable Rel-5 or later	
		To Confirm CPHY_HS_DPCCH_CQI_REQ	
		Type Definition	
SEQUENCE	{		
ı	cellId	INTEGER(063)	
}	cellId	INTEGER(063)	

	ASN.1 ASP Type Definition		
Type N	Name	CPHY_HS_DPCCH_CQI_REQ	
PCO 1	Гуре	CSAP	
		To enable the SS to start reporting N times of the CQI value received on the HS- DPCCH. After N times the SS stops reporting. N is specified in numberOfReports. At the SS initialization reporting of CQI values is disabled	
		Type Definition	
SEQUENCE }	{ cellId ratType numberOfF	INTEGER(063), RatType, Reports INTEGER(132)	

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_DPCCH_CQI_IND	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later SS generates the indication when a CQI value is received on HS_DPCCH after invocation of ASP CPHY_HS_DPCCH_CQI_REQ and before the numberOfReports is reached. This ASP is used for verifying whether the UE has configured the HS-DSCH and starts reception of HS-DSCH (3GPP TS 25.331 [21], clause 8.6.6.34). "second_cqi" shall be reported when MIMO is configured and dual transport block type A CQI report is received. When second_cqi is present, allowed values for "cqi" are 014. In all other cases (i.e. non MIMO operation, MIMO operation but with CQI type B or single transport block type A CQI reports] "second_cqi" shall not be reported and range for cqi is 030. "pci" shall be present when MIMO is configured.	
	Type Definition	
SEQUENCE { cellId ratType cfn subframe cqi second_cqi pci }	INTEGER(063), RatType, INTEGER (0255) OPTIONAL, Rel-7 or later INTEGER (04) OPTIONAL, Rel-7 or later INTEGER (030), INTEGER (014) OPTIONAL, Rel-7 or later INTEGER (03) OPTIONAL Rel-7 or later	

7.3.2.2.12c CPHY_HS_DSCH_CRC_Mode (Rel-5 or later)

ASN.1 ASP Type Definition	
Type Name	CPHY_HS_DSCH_CRC_Mode_CNF
PCO Type	CSAP
Comment	Applicable Rel-5 or later
	Confirm a previous CPHY_HS_DSCH_CRC_Mode_REQ being successful.
	Type Definition
SEQUENCE {	
cellId	INTEGER(-163),
routingInfo	RoutingInfo
}	

	ASN.1 ASP Type Definition		
Type Na	ame	CPHY_HS_DSCH_CRC_Mode_REQ	
PCO T	ype	CSAP	
Comm		Applicable Rel-5 or later To set the CRC calculation mode for HS-DSCH. If mode = normal, the SS generates the correct CRC. If mode = erroneous, the SS always generates any wrong CRC value which is different from the correct one on the specified MACdFlow/mac-ehs Queue. If mode = error1AndNormal, the SS generates wrong CRC for first transmission and correct CRC on first retransmission. Later SS operates in normal mode. If mode = error2AndNormal, the SS generates wrong CRC for first transmission, first retransmission and correct CRC second retransmission. The corrupted bits in first error transmission and second error transmission are different, so that when UE combines the data from three transmission, shall result in correct data. Later SS operates in normal mode. As default, the normal mode is applied. When the HS-DSCH first configured or reconfigured the SS enters the normal CRC calculation mode.	
		Type Definition	
SEQUENCE }	{ cellId routingIr flow_Quer mode		

ASN.1 Type Definition		
Type Name	Flow_Queue_ID	
Comment	Choice MAC_d_Flow is used when MAC-hs is configured and MAC_ehs_Queue	
	is used when MAC-ehs is configured.	
Type Definition		
CHOICE {		
$ exttt{mac_dFlowId}$ $ exttt{MAC_d_FlowIdentity},$		
mac_ehs_Queu	meId MAC_ehs_QueueId	
]}		

7.3.2.2.13 CPHY_TrCH_Config

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

	ASN.1 ASP Type Definition		
Type N	lame	CPHY_TrCH_Config_REQ	
PCO 1	Гуре	CSAP	
Comn	nent	To request to configure the transport channel	
	Type Definition		
SEQUENCE	{ cellId routingIn ratType trchConf: configMes	RatType, igType TrchConfigType,	

	ASN.1 Type Definition		
Type Name	CphyTrchConfigReq		
Comment			
	Type Definition		
	TrCHList SEQUENCE (SIZE (0maxTrCH)) OF SEQUENCE { Inid TransportChannelIdentity, TransportChannelType SS_UL_TransportChannelType, InsportChannelInfo CommonOrDedicatedTFS		
ulTFCS	} OPTIONAL, TFCS OPTIONAL,		
dlconnectedT trch dl_T	TrCHList SEQUENCE (SIZE (0maxTrCH)) OF SEQUENCE { Id TransportChannelIdentity, TransportChannelType SS_DL_TransportChannelType, TransportChannelInfo CommonOrDedicatedTFS		
dlTFCS hsDSCHMacdFl e_DCHMacdFlc ehs_DSCH_Flc	ows E_DCHMACdFlows OPTIONAL, Rel-6 or later ows EHS_DSCH_Flows OPTIONAL, Rel-7 or later		
ehs_DSCH_Com	mmonFlows EHS_DSCH_CommonFlows OPTIONAL Rel-7 or later		

ASN.1 Type Definition			
Type Name	RoutingInfo		
Comment	Comment To route between each channels.		
		Type Definition	
transportCha logicalChanr rB_Identity	CHOICE { physicalChannelIdentity		

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 (CommonOrDedicatedTFS		
Comment	Fransport Format Set		
	Type Definition		
SEQUENCE {			
tti	CHOICE {		
tti10	CommonOrDedicatedTF_InfoList,		
tti20	CommonOrDedicatedTF InfoList,		
tti40	CommonOrDedicatedTF_InfoList,		
tti80	CommonOrDedicatedTF InfoList,		
dynamic	CommonOrDedicatedTF InfoList DynamicTTI		
},			
semistaticTF Info	rmation SemistaticTF Information		
_	_		

ASN.1 Type Definition			
Type Name	Type Name CommonOrDedicatedTF_InfoList		
Comment	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 {normal(0), softHO(1)}			
}	acn	ENUMERATED {NOTHIAL(0), SOLCHO(1)}	

ASN.1 Type Definition			
Type Name	HS_DSCHMACdFlows		
	Applicable Rel-5 or later Within the ACK/NACK repetition period indicated by ackNackRepetitionFactor the SS shall not transmit MAC-hs PDU's on HS-PDSCH. Only one among harqInfo and harqInfo_r7 shall be present. Harq_Info_r7 shall be used for Rel-7 or later. mimoStatus represents status of MIMO, and shall be set only if mimo_Parameters are provided in HS-PDSCH configuration		
		Type Definition	
SEQUENCE {			
harqInfo		HARQ_Info	OPTIONAL,
addOrReconfM	ACdFlow	SS_AddOrReconfMAC_dFlow	OPTIONAL,
ackNackRepet:	itionFactor	ACK_NACK_repetitionFactor	OPTIONAL,
harqInfo r7		HARQ Info r7	OPTIONAL,
to be	used for Rel-7	or later.	
mimoStatus		BOOLEAN	OPTIONAL
Rel-7	or later		
}			

ASN.1 Type Definition			
Type Name	HS_DSCH_Flows		
V S m	Applicable Rel-7 or later Within the ACK/NACK repetition period indicated by ackNackRepetitionFactor the SS shall not transmit MAC-hs PDU's on HS-PDSCH. mimoStatus represents status of MIMO, and shall be set only if mimo_Parameters are provided in HS-PDSCH configuration		
	Type Definition		
SEQUENCE {			
harqInfo	HARQ_Info_r7	OPTIONAL,	
addOrReconfMAC_ehs_ReordQ AddOrReconfMAC_ehs_ReordQ		rdQ OPTIONAL,	
ackNackRepetitionF	Factor ACK_NACK_repetitionFac	tor OPTIONAL,	
mimoStatus }	BOOLEAN	OPTIONAL	

ASN.1 Type Definition				
Type Name	Name EHS_DSCH_CommonFlows			
Comment	Applicable Rel-7 or lat	Applicable Rel-7 or later		
Type Definition				
SEQUENCE { harqInfo				

```
ASN.1 Type Definition

Type Name | SS_AddOrReconfMAC_dFlow |
Comment | Applicable Rel-5 or later |

Type Definition

SEQUENCE {
    mac_hs_AddReconfQueue_List | SEQUENCE (SIZE(1..maxQueueIDs)) OF SEQUENCE {
        mac_hs_AddReconfQueue | SS_MAC_hs_AddReconfQueue } OPTIONAL,
    mac_hs_DelQueue_List | SEQUENCE (SIZE(1..maxQueueIDs)) OF SEQUENCE {
        mac_hs_DelQueue_List | SEQUENCE (SIZE(1..maxQueueIDs)) OF SEQUENCE {
        mac_hsQueueId | INTEGER(0..7) } OPTIONAL
```

ASN.1 Type Definition			
Type Name	71		
Comment	Applicable Rel-5 or later		
	The priority of PriorityQueue shall set according to the priority of logical channels		
	which is mapped on to this priority queue.		
	Note: the range of priority of PriorityQueue is from 0 to 7 and 0 is the lowest		
	priority.		
	DiscardTimer defines the time (unit ms) to live for a MAC-hs SDU starting from		
	the instant of its arrival into an HSDPA Priority Queue. The SS shall use this		
	information to discard out-of-data MAC-hs SDUs from the HSDPA Priority		
	Queues.		
	Type Definition		
SEQUENCE {	Typo Dominion		
mAChsAddReconfQu	eue MAC hs AddReconfQueue,		
logicalChannelLi	st SEQUENCE OF LogicalChannelIdentity,		
	logical channels mapping onto the priority queue		
	which is specified in maChsAddReconfQueue		
priority	INTEGER(07),		
discardTimer	ENUMERATED {		
	v20(0),v40(1),v60(2),v80(3),v100(4),v120(5),v140(6),v160(7),v180(8),v200(9),		
	v250(10), v300(11), v400(12), v500(13), v750(14), v1000(15), v1250(16), v1500(17), v1750(18), v20		
00(19), V2500(20), V30	00(21), v3500(22),v4000(23),v4500(24),v5000(25), v7500(26)		
3) OFIIONAL		
J			

ASN.1 Type Definition				
Type Name	E_DCHMACdFlows			
Comment	Rel-6 or later			
	addReconf_MAC_d_FlowList and addReconf_MAC_d_FlowList_r7 are mutually			
	exclusive. One of these shall be present.			
	Type Definition			
SEQUENCE {				
tti	E_DCH_TTI,			
harq_Info	ENUMERATED $\{rv0 (0), rvtable (1)\},$			
addReconf_MA	C_d_FlowList E_DCH_AddReconf_MAC_d_FlowList OPTIONAL,			
	Rel-6			
addReconf_MA	C_d_FlowList_r7 E_DCH_AddReconf_MAC_d_FlowList_r7 OPTIONAL			
	Rel-7 or later			
}				

ASN.1 Type Definition			
Type Name	SS_LogicalChannelList		
Comment			
	Type Definition		
CHOICE { allSizes configured explicitList }	NULL, NULL, SEQUENCE (SIZE (115)) OF SS_LogicalChannelByRB		

ASN.1 Type Definition			
Type Name	Name SS_LogicalChannelByRB		
Comment	logChOfRb is an optional and currently unused		
Type Definition			
SEQUENCE { rb_Identity logChOfRb }	INTEGER (-3132), INTEGER (01) OPTIONAL		

7.3.2.2.14a CPHY_UL_PowerModify

ASN.1 ASP Type Definition			
Type I	Type Name CPHY_UL_PowerModify_CNF		
PCO	PCO Type CSAP		
Comment To confirm the increase/decrease in UE uplink DPCH power transmission or		To confirm the increase/decrease in UE uplink DPCH power transmission or send	
the TPC commands as instructed.		the TPC commands as instructed.	
		Type Definition	
SEQUENCE	{ cellId routingI	INTEGER(063), nfo RoutingInfo	
}			

ASN.1 ASP Type Definition			
Type Name		CPHY_UL_PowerModify_REQ	
PCO 1	Гуре	CSAP	
Comment		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 -20 dbm 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. Ul_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 {		Id INTEGER(031),	

	ASN.1 Type Definition		
Тур	e Name	UI_UE_Tx_Power	
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 desired level SS shall make UE to maintain this new transmission power lew WithChoice maxMin, and ENUM 'tpc_Up' selection, SS shall start transmit TPC commands on the DL DPCCH, as '1' every slot so as to ask UE to independ the transmission power. With Choice maxMin, and ENUM 'tpc_Down' selection, SS shall start transmitted 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		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	
		Type Definition	
	{ deltaINTEGER maxMin	<pre>(-6463), ENUMERATED{ tpc_Up(0), tpc_Down(1), tpc_Maintain(2) }</pre>	

7.3.2.2.14 CPHY_TrCH_Release

ASN.1 ASP Type Definition			
Type Name	CPHY_TrCH_Release_REQ		
PCO Type	CSAP		
Comment	To request to release the Radio Link		
	Type Definition		
SEQUENCE {	5 11 ,		
}	_		

ASN.1 ASP Type Definition			
Type Name	Type Name CPHY_TrCH_Release_CNF		
PCO Type	PCO Type CSAP		
Comment	To confirm to release the Radio Link		
	Type Definition		
SEQUENCE {	INTEGER(063), nfo RoutingInfo		

7.3.2.2.15 CMAC_BMC_Scheduling

ASN.1 ASP Type Definition			
Type Name	Type Name CMAC_BMC_Scheduling_CNF		
PCO Type	PCO Type CSAP		
Comment	To confirm the BMC scheduling.		
	Type Definition		
SEQUENCE {	INTEGER(063), nfo RoutingInfo		

ASN.1 ASP Type Definition			
Type Name CMAC_BMC_Scheduling_REQ			eduling_REQ
PCO Typ	PCO Type CSAP		
Commer	Comment Send the BMC scheduling information to the MAC.		
			Type Definition
SEQUENCE	ratT	ingInfo	<pre>INTEGER(063), RoutingInfo, RatType, BMC_SchedulingInfo</pre>

	ASN.1 Type Definition				
Type Name		BMC_SchedulingInfo			
Comment					
	Type Definition				
SEQUENCE }	{ level1In level2In				

	ASN.1 Type Definition				
Type Name		BMC_Schedulin	gLevel2Info		
Comi	ment				
	Type Definition				
SEQUENCE }	{ starCtchi drxSelec	BsIndex tionBitmap	INTEGER (1256) OCTET STRING	DEFAULT 1,	

	ASN.1 Type Definition					
Type Name		BMC_SchedulingLevel1Info				
Comment		0 ≤ K ≤ N-1 (3GPP TS 25.331 [21], clause 8.5.16)				
	Type Definition					
SEQUENCE }	{ ctchAllo cbsFrame	cationPeriod Offset		(1256), (0255)	N K	

7.3.2.2.16 CMAC_Ciphering_Activate

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

ASN.1 ASP Type Definition			
Type Name	CMAC_Ciphering_Activate_REQ		
PCO Type	CSAP		
Comment	To request to start or restart downlink ciphering or uplink deciphering. The physicalChannelIdentity of DPCH applies to routingInfo. Initialize the 20 MSB of HFN component of COUNT-C to the START value stored. If the value of incHFN is set to "NotInc" the SS initializes the remaining LSBs of HFN component in COUNT-C to zero and the SS shall not increment HFN part of COUNT-C at every CFN cycle. If the value of incHFN is set to "IncPerCFN_Cycle" the SS initializes the remainingLSBs of HFN component in COUNT-C accordingly. If it is absent the SS initialize the LSBs of HFN component in COUNT-C to zero, increments the HFN component in COUNT-C by one and then starts the increment HFN part of COUNT-C at every CFN cycle. Only one among cipheringModeInfo and CipheringModeInfo_r7 shall be present. The later being applicable from Rel 7 onwards.		
	Type Definition		
cipherir cipherir	INTEGER(-163), nfo RoutingInfo, RatType, nIdentity CN_DomainIdentity, gModeInfo CipheringModeInfo OPTIONAL, gModeInfo_r7 CipheringModeInfo_r7 OPTIONAL, el 7 or later Increment_Mode		

ASN.1 Type Definition			
Type Name	Increment_Mode		
Comment			
Type Definition			
ENUMERATED {incPerCF	N_Cycler(0), notInc(1), incByOne_IncPerCFN_Cycle(2)}		

7.3.2.2.16a CMAC_FACH_MeasOccas

ASN.1 ASP Type Definition				
Type Name		CMAC_FACH_MeasOccas_CNF		
PCO Type		CSAP		
Comment		To confirm to config FACH Measurement Occasions		
	Type Definition			
SEQUENCE }	{ cellId routingIn	INTEGER(063), nfo RoutingInfo		

	ASN.1 ASP Type Definition		
Type Name	CMAC_FACH_MeasOccas_REQ		
PCO Type	CSAP		
Comment	To request MAC layer to configure FACH Measurement Occasions (FMO). If IE "Inter-frequency FDD measurement indicator" is set to TRUE, the UE will start inter-frequency FMO at the activationTime. If this IE is set to FALSE, the UE inter-frequency FMO will be stopped at the activation Time. For the FDD test, the IE "Inter-frequency TDD measurement indicator" is set to FALSE. If IE "Inter-RAT measurement indicators" is included, the UE will start inter-RAT FMO at the activationTime. If this IE is omitted, the UE inter-RAT FMO will be stopped at the activation Time. largest_TTI_Number is the TTI (in number of 10ms frames) of the FACH having the largest TTI on the SCCPCH.		
	Type Definition		
fMO larg	IId INTEGER(063), ingInfo RoutingInfo, FACH_MeasurementOccasionInfo, INTEGER(18), ivationTime SS_ActivationTime		

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				
SEQUENCE {	lId INTEGER(-163), tingInfo RoutingInfo				

ASN.1 ASP Type Definition				
Type Name	CMAC_Config_	_REQ		
PCO Type	CSAP			
Comment	instances or th	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		
rat	lId tingInfo Type figMessage setup reconfigure release	<pre>INTEGER(-163), RoutingInfo, RatType, CHOICE { CmacConfigReq, CmacConfigReq, SS_ActivationTime</pre>		

		ASN.1 Type	Definition
Type Name		CmacConfigReq	
Comment		To request to configure MAC	
		The IE associatedPhychConfigToFollow should be set to TRUE when there is a associated physical channel configuration to follow (e.g configuration of PICH or MICH),	
		The implementation of the IE "associatedPhychConfigToFollow" can be left to the SS either to wait for the associated physical channel before MAC is configured or to continue the configuration of MAC without waiting for the associated physical channel.	
		Type Def	inition
SEQUENCE			SS_ActivationTime, UE_Info, TrCHInfo, TrCH_LogCHMappingList1, BOOLEAN DEFAULT FALSE

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. At the MAC-hs configuration both u_RNTI and c_RNTI_DSCH_RNTI are omitted. If MAC is being configured with Common_MAC_ehs flows, UE Info U-RNTI shall be provided and is applied in MAC-c header on SRB#1.			
		Type Definition		
SEQUENCE {	•			
u_RNTI	U_RNTI	OPTIONAL,		
c_RNTI	C_RNTI	OPTIONAL		

	ASN.	.1 Type Definition
Type Name	TrCH_LogCHMapping	
Comment	maxulTrCH = maxdlTr	
		ws is used for MAC-hs and dlconnectedMAC_ehsFlows for
		ns in dedicated. dlconnectedMAC_ehsCommonFlow is
	used for MAC-ehs in 0	
SEQUENCE {		ype Definition
ulconnectedT trch	~	CE (SIZE (1maxulTrCH)) OF SEQUENCE { TransportChannelIdentity,
trCH	_LogCHMappingList	TrCH_LogCHMappingList } OPTIONAL,
dlconnectedT	~	CE (SIZE (1maxdlTrCH)) OF SEQUENCE {
trch		TransportChannelIdentity,
trCH	_LogCHMappingList	<pre>TrCH_LogCHMappingList</pre>
dlconnectedM	ACdelows SECTIENC	CE (SIZE (18)) OF SEQUENCE {
	dFlowId	MAC d FlowIdentity,
trCH	_LogCHMappingList	
		} OPTIONAL,
77		Rel-5 or later
dlconnectedM	_	SEQUENCE (SIZE (18)) OF SEQUENCE { MAC ehs Queueld,
	ehs_QueueId LogCHMappingList	
	_HOGERMAPPINGHISE OPTIONAL,	iicii_nogciiiappiiignisc
	el-7 or later	
	AC_ehsCommonFlow	SEQUENCE {
_	ehs_QueueId	MAC_ehs_QueueId,
}	_LogCHMappingList OPTIONAL	TrCH_LogCHMappingList
R	el-7 or later	
}		

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

	ASN.1 Type Definition
Type Name	TrCHInfo
Comment	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. For MAC-hs configuration: When ulconnectedTrCHList, ulTFCS, dlconnectedTrCHList and dlTFCS are omitted and hsDSCHMacdFlows is present this ASP configures an MAC-hs entity. For MAC-ehs configuration: When ulconnectedTrCHList, ulTFCS, dlconnectedTrCHList and dlTFCS are omitted and ehs_DSCH_Flows or E-HS-DSCH_Common Flows is present this ASP configures an MAC-ehs entity. Only one of hsDSCHMacdFlows or ehs_DSCH_Flows can be present (Only one
	of MAC-hs or MAC-ehs layer can be configured).
CEOLIENCE	Type Definition
SEQUENCE { ulconnectedT trch	2 2
02411	} OPTIONAL,
ulTFCS	TFCS OPTIONAL,
dlconnectedT trch transportCha	id TransportChannelIdentity,
Cransporcena	OPTIONAL,
dlTFCS	TFCS OPTIONAL,
hsDSCHMacdFl	
ehs_DSCH_Flo ehs_DSCH_Com }	·

ASN.1 Type Definition			
Type Name	TrCH_LogicalChannelMapping		
Comment	When used for logical channel to MAC_d flow mapping		
	dl_LogicalChannelMapping shall be chosen,		
	Type Definition		
SEQUENCE {			
logicalChannel_M	Mapping CHOICE {		
ul_L	ogicalChannelMapping SS_UL_LogicalChannelMapping,		
dl_LogicalChannelMapping			
	},		
rB_Identity	INTEGER (-3132) OPTIONAL,		
cn_DomainIdentit	y CN_DomainIdentity OPTIONAL		
}			

ASN.1 Type Definition			
Type Name	SS_UL_LogicalChann	nelMapping	
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 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,	
ul_TransportChannelType		SS_UL_TransportChannelType,	
logicalChannelIdentity		LogicalChannelIdentity,	
logicalChannelType }		LogicalChannelType	

ASN.1 Type Definition		
Type Name	SS_DL_Logic	alChannelMapping
Comment	on this logical sent to lower I If the macHea this logical channe present. This individual field When used fo "configured" a When the logiwith MBMS_L	derManipulation field is 'NormalMacHeader', then data transmitted channel shall have an appropriate MAC header added before it is ayers for transmission. derManipulation field is 'OmitMacHeader', then data transmitted on annel shall not have any MAC header information added, even if the el type and mapping indicates that there should be a MAC header allows the entire MAC PDU to be specified in the TTCN, so is in the MAC header can be modified. TDTCH mapping to MAC_d flow, rlc_SizeList shall choose ccording to the configured mAChsAddReconfQueue values. cal channel is MTCH, the logicalChannelIdentity shall be consistent ogicalChIdentity in MBMS_PTM_RBInformation_N and RBInformation_C.
		Type Definition
SEQUENCE {		
macHeaderManipul		MAC_HeaderManipulation,
dlTransportChann		SS_DL_TransportChannelType,
logicalChannelId		LogicalChannelIdentity,
logicalChannelType rlc SizeList		LogicalChannelType, CHOICE {
allSizes		NULL,
configured		NULL,
explicitList		RLC SizeExplicitList},
<pre>mac_LogicalChannelPriority }</pre>		MAC_LogicalChannelPriority OPTIONAL

ASN.1 Type Definition		
Type Name	SS_UL_TransportChannelType	
Comment		
	Type Definition	
ENUMERATED {		
dch (0),		
rach (1),		
cpch (2),		
usch (3),		
edch (4)	Rel-6 or later	
}		

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

```
ASN.1 Type Definition
    Type Name
                     SS_DL_TransportChannelType
     Comment
                                      Type Definition
ENUMERATED {
            (0),
   dch
    fach
            (1),
   bch
            (2),
   pch
            (3),
    dsch
            (4),
   hsdsch (5)
                    -- Rel-5 or later
```

```
ASN.1 Type Definition
     Type Name
                        LogicalChannelType
      Comment
                                           Type Definition
ENUMERATED {
    bCCH
             (1),
    рССН
    cCCH
              (2),
    \mathtt{cTCH}
              (3),
    dCCH
              (4),
             (5),
    dTCH
             (6),
    sHCCH
              (7),
                      -- Rel-6 or later
    mTCH
                     -- Rel-6 or later
-- Rel-6 or later
             (8),
(9)
    mCCH
    mSCH
```

ASN.1 Type Definition		
Type Na	Type Name MAC_HeaderManipulation	
Comm	ent	
Type Definition		
ENUMERATED }	{ normalMac omitMacHe	cHeader (0), eader (1)

7.3.2.2.17a CMAC_MAChs_MACehs_TFRCconfigure (Rel-5 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_MACehs_TFRCconfigure_CNF	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later Confirm a previous CMAC_MAChs_MACehs_TFRCconfigure_REQ being successful.	
Type Definition		
SEQUENCE {	INTEGER(-163)	

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_MACehs_TFRCconfigure_REQ	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later To configure the TFRC selection in the MAC-hs entity, channelisationCodeOffset + noOfChannelisationCodes shall not be great than 15. If explicitlyConfigured is selected in tfrcConfigMode, the SS shall use all the parameter values specified to configure a correct transport format and radio resources. This configuration is used for HS-SCCH associated HS-DSCH transmission.	
	If sS_Configured is selected, the parameter value range is specified. SS shall dynamically select the suitable values for the parameters "modulationScheme", "channelisationCodeOffset", "noOfChannelisatonCodes ", .tbSizeIndexOnHS_SCCH", "redundancyVersion" and "hs_PDSCH_TxPower" according to UE's capability category and CQI information reported by the UE. As HS-SCCH less operation and MIMO cannot be simultaneously configured, only one among hs_scch_LessInfo and mimoStatus can be present. When both are absent non MIMO, non HS-SCCH less operation is configured.	
	explicitHS_SCCH_LessMode is used to force SS to use HS-SCCH less operation. explicitMIMO is used for MIMO operation. Presence of ss_DTX_Info indicates DL_DRX is enabled.	
Type Definition		

```
SEQUENCE
                                INTEGER(-1..63),
     cellId
                               CHOICE {
     tfrcConfiqMode
               figMode
licitlyConfigured
licitlyConfigured

modulationScheme
channelisationCodeOffset
noOfChannelisatonCodes
tbSizeIndexOnHS_SCCH
minimumInterTTIinterval
redundancyVersions
hs_PDSCH_TxPower

SEQUENCE {
ModulationScheme,
INTEGER (1..15),
INTEGER (1..15),
INTEGER (1..3),
RedundancyVersionList,
DL_TxPower -- default offset related
-- to p-CPICH or s-CPICH
           explicitlyConfigured
           sS Configured SEQUENCE {
                minChannelisationCodeOffset
                                                           INTEGER (1..15),
                maxNoOfChannelisatonCodes
                                                           INTEGER (1..15),
                                                          DL_TxPower, -- default offset related -- to p-CPICH or s-CPICH
                iniHS_PDSCH_TxPower
                                             HS_SCCH_LessInfo_r7 OPTIONAL,
                hs scch LessInfo
                mimoStatus
                                                          BOOLEAN
                                                                                     OPTIONAL
          explicitHS_SCCH_LessMode SEQUENCE(
hs_pdsch_CodeIndex INTEGER (1..15),
hs_scch_LessTFI INTEGER (1..90),
                hs_scch_LessSecondCodeApplicability BOOLEAN,
                                                    INTEGER (0..3),
                           -- the index of tbs for HS-SCCH less operation
                           -- The value should be consistent with code index, TFI and second
                          -- code applicability
                                                     DL TxPower
                hs PDSCH TxPower
                              -- default offset related to p-CPICH or s-CPICH
           explicitMIMO
                                          SEQUENCE {
                modulationSchemeAndNumTB
                                                              INTEGER (0 | 3 | 4 | 6 | 7),
                     -- set according to table 14 of 25.212
                {\tt channelisationCodeOffset} \qquad \qquad {\tt INTEGER} \ \ ({\tt 1..15}) \ ,
                noOfChannelisatonCodes
                                                                INTEGER (1..15),
                precodingWeight2
                                                               INTEGER (0..3),
                      -- set according to table 14a of 25.212
                primaryTB_SizeIndexOnHS_SCCH INTEGER (0..63), secondaryTB_SizeIndexOnHS_SCCH INTEGER (0..63)
                                                               INTEGER (0..63) OPTIONAL,
                     --present only if second TB is to be tx as per modulationSchemeAndNumTB
                minimumInterTTIinterval INTEGER (1..3),
primaryRedundancyVersions RedundancyVersionList,
secondaryRedundancyVersions RedundancyVersionList OPTIONAL,
                     --present only if second TB is to be tx as per modulationSchemeAndNumTB
                                                               DL_TxPower -- default offset related -- to p-CPICH or s-CPICH
                hs PDSCH TxPower
           },
     activationTime
                                          SS_ActivationTime,
     ss_DTX_Info
                                          DRX_Info
                                                                     OPTIONAL
     hs_DSCH_TBSizeTable
                                        HS DSCH TBSizeTable OPTIONAL
```

ASN.1 Type Definition		
Type Name	RedundancyVersionList	
Comment	Gives the Redundancy and constellation version coding sequence (Xrv) to be used for every transmission / retransmission. The SIZE (number of Xrv elements in there) of the SEQUENCE implies the number of HARQ transmission / retransmissions to be required.	
Type Definition		
SEQUENCE (SIZE (18)) OF INTEGER (07)	

ASN.1 Type Definition	
Type Name	ModulationScheme
Comment	
Type Definition	
ENUMERATED {qpsk (0), qam16 (1), qam64 (2), spare1 (3)}	

ASN.1 ASP Type Definition	
Type Name	CMAC_MAChs_MACehs_HARQprocAssign_CNF
PCO Type	CSAP
	Applicable Rel-5 or later Confirm a previous CMAC_MAChs_MACehs_HARQprocAssign_REQ being successful.
Type Definition	
SEQUENCE {	INTEGER(-163)

ASN.1 ASP Type Definition			
Type N	lame	CMAC_MAChs_MACehs_HARQprocAssign_REQ	
PCO 1	Гуре	CSAP	
Comn	nent	Applicable Rel-5 or later	
	-	To assign a HARQ process handling the next MAC-hs PDU transmission.	
	This ASP provides TTCN the ability to select an HARQ process serving the next		
	MAC-hs PDU which follows the ASP. After successful transmission the MAC-hs		
	returns back to normal operation. In the normal operation a suitable HARQ		
	process is selected by HARQ entity in the MAC-hs to serve the MAC-hs PDU		
	without TTCN intervening.		
Type Definition			
SEQUENCE	{		
	cellId	INTEGER (-163),	
	harqProce	ssId INTEGER(015 31)	
}			

ASN.1 ASP Type Definition	
Type Name	CMAC_MAChs_MACehs_Reset_CNF
PCO Type	CSAP
Comment	Applicable Rel-5 or later
	Confirm a previous CMAC_MAChs_MACehs_Reset_REQ being successful.
Type Definition	
SEQUENCE {	
cellId	INTEGER(-163)
]}	

ASN.1 ASP Type Definition		
Type Name	CMAC_MAChs_MACehs_Reset_REQ	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	To reset the MAC-hs entity.	
Type Definition		
SEQUENCE {		
cellId	INTEGER (-163)	
}		

7.3.2.2.17aa CMAC _MACehs_HS_SCCH_Orders (Rel-5 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACehs_HS_SCCH_	_OrdersCNF
PCO Type	CSAP	
Comment	Applicable Rel-7 or later	
	Confirm a previous CMAC _N	MACehs_HS_SCCH_Orders REQ being successful.
Type Definition		
SEQUENCE {		
cellId	<pre>INTEGER(-163),</pre>	
routingInfo	RoutingInfo	Physical Channel ID
}		

ASN.1 ASP Type Definition	
Type Name	CMAC_MACehs_HS_SCCH_OrdersREQ
PCO Type	CSAP
Comment	Applicable Rel-7 or later To instruct SS to transmit requested HS-SCCH orders at requested time: OrderType, drx_order, dtx_Order are as per 25.212 clause 4.6c.2 Cfn and subframe together indicate, the time on which the HS-SCCH order is to be transmitted.
	Type Definition
SEQUENCE { cellId routingInfo cfn subframe ordertype drx_Order dtx_Order spare h_RNTI }	<pre>INTEGER(-163), RoutingInfo, Physical Channel ID INTEGER (0255), INTEGER (04), INTEGER (07), INTEGER (01), INTEGER (01), INTEGER (01), INTEGER (01), INTEGER (01),</pre>

7.3.2.2.17b CMAC_MACe_Config (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_Config_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CMAC_MACe_Config_REQ being successful.	
Type Definition		
SEQUENCE {		
nodeB_Id	INTEGER(063)	
}		

```
ASN.1 ASP Type Definition
    Type Name
                    CMAC_MACe_Config_REQ
     PCO Type
                     CSAP
     Comment
                                     Type Definition
SEQUENCE
   JENCE {
  nodeB_Id
                        INTEGER(0..63),
   configMessage
                        CHOICE {
                                        MACeConfig,
                            setup
                                        MACeConfig,
                           reconfig
                                        NULL,
                            reset
                                        SS_ActivationTime
                            release
```

ASN.1 Type Definition		
Type Name	MACeConfig	
Comment	If the macHeaderManipulation field is 'NormalMacHeader' in ddiMappingList, then data received on the E-DCH (MAC_e PDU) shall have it's MAC header inspected to de-multiplex and to determine the appropriate routing, and the MACes PDU shall be passed to the MAC_es together with the relevant DDI, N, CFN and subframe number. If the macHeaderManipulation field field is 'OmitMacHeader', then data received on the E-DCH (MAC_e PDU) shall have it's MAC header inspected to demultiplex and to determine the appropriate routing, then the MAC_e layer shall delivery the MAC-es PDU, SI and the related CFN, subframe number to the MAC_es entity. connectedToMAC_es field is used to provide the possibility that the E-DCH-MACdFlows from only one MAC_e entity are connected to the MAC_es entity in the inter node B soft handover test cases. The IEs ddiMappinglist and e_DCHMacdFlows can be OMITted when changing the serving cell MAC-e without modification of MAC-e configurations. It will be applied in EDCH SHO. ss_DRX_MAC_Info presence indicates UL DRX shall be applied.	
GROHENGE (Type Definition	
SEQUENCE { activationTime ddiMappinglist e_DCHMacdFlows connectedToMAC_e ss_DRX_MAC_Info }	SS_ActivationTime, DDI_MappingList OPTIONAL, E_DCHMACdFlows OPTIONAL, BOOLEAN DEFAULT TRUE, can be set to FALSE in inter nodeB SHO SS_DRX_MAC_Info OPTIONAL	

ASN.1 Type Definition		
Type Name	SS_DRX_MAC_Info	
Comment	Consistent with E-DCH TTI, either of mac_dtx_Cycle_2ms or	
	mac_dtx_Cycle_10ms shall be present.	
Type Definition		
SEQUENCE { mac_InactivityThreshold		

7.3.2.2.17c CMAC_MACe_NodeB_CellMapping (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_NodeB_CellMapping_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CMAC_MACe_NodeB_CellMapping_REQ being successful.	
Type Definition		
<pre>SEQUENCE {</pre>	INTEGER(063)	

ASN.1 ASP Type Definition	
Type Name	CMAC_MACe_NodeB_CellMapping_REQ
PCO Type	CSAP
Comment	To put a set of cells under the control of a MAC_e entity indicated by nodeB_Id, which is configured by CMAC_MAC_e_Config_REQ. This ASP establishes the routing relation between E-DCH related channels in these cells with a MAC_e entity. A cell is mapped to only one NodeB, and the cellId allocation is unique in a test.
	Type Definition
<pre>SEQUENCE { nodeB_Id celllist }</pre>	INTEGER(063), SEQUENCE OF INTEGER (063)

7.3.2.2.17d CMAC_MACes_Config (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name	CMAC_MACes_Config_CNF		
PCO Type	CSAP		
Comment	Confirm a previous CMAC_MACes_Config_REQ being successful. cellId=-1.		
	Type Definition		
SEQUENCE {			
cellId	INTEGER (-163)		
1}			

ASN.1 ASP Type Definition		
Type Name	CMAC_MACes_Config_REQ	
PCO Type	CSAP	
Comment	This ASP is used for creating and configuring, reconfiguring, resetting or releasing an MAC_es, a cell / nodeB-independent entity in the SS. cellId=-1.	
Type Definition		
SEQUENCE {	<pre>INTEGER(-163), e CHOICE {</pre>	
setup reconfig reset release	MACesConfig, MACesConfig, NULL, SS_ActivationTime}	

ASN.1 Type Definition			
Type I	Name M	MACesConfig	
Comi	E- W de	MACesConfig establishes the mapping between logical channels and E-DCH_MACd_Flows. When the macTestMode is TRUE, the re-ordering entity shall not elimilate the deplicated packets, but passes them to RLC. macTestMode = 'TRUE' is used for testing the retransmission function of HARQ process.	
Type Definition			
SEQUENCE	{ activation ddiMapping macTestMod	list DDI_MappingList,	

ASN.1 Type Definition		
Type Name	Type Name DDI_MappingList	
Comment	Comment	
Type Definition		
SEQUENCE (SIZE (13	1)) OF DDI_Mapping	

ASN.1 Type Definition		
Type Name	DDI_Mapping	
Comment		
	Type De	efinition
logical	erManipulation ChannelIdentity	MAC_HeaderManipulation, LogicalChannelIdentity,
ddi rlc_PDU_ include] mac_Logi	C_d_FlowIdentity SizeList InSchedulingInfo CalChannelPriority ChannelType Lity	E_DCH_MAC_d_FlowIdentity, DDI, RLC_PDU_SizeList, BOOLEAN, MAC_LogicalChannelPriority, LogicalChannelType, INTEGER (-3132) OPTIONAL

7.3.2.2.17e CMAC_MACe_AG (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_AG_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CMAC_MACe_AG_REQ being successful.	
Type Definition		
SEQUENCE {		
nodeB_Id	INTEGER(063)	
}		

ASN.1 ASP Type Definition			
Type Name CMAC_MACe_AG_REQ		Ce_AG_REQ	
PCO T	ype CSAP	CSAP	
Comm	nent The hARQP	rocld shall be converted to the nearest CFN (and subframe number if	
	TTI = 2 ms)	by the SS, and the Absolute Grant is sent in that CFN (and subframe	
	number if TT	T = 2 ms)	
	Type Definition		
SEQUENCE	{ nodeB_Id grantType absoluteGrantValue absoluteGrantScope hARQProcId	<pre>INTEGER(063), ENUMERATED {primary(0), secondary(1)}, BIT STRING(SIZE(5)), BIT STRING(SIZE(1)), INTEGER (07),</pre>	
}	activationTime	SS_ActivationTime	

7.3.2.2.17f CMAC_MACe_AckNack (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	CMAC_MACe_AckNack_CNF	
PCO Type	CSAP	
Comment	To Confirm CMAC_e_AckNack_REQ	
Type Definition		
SEQUENCE { nodeB_Id }	INTEGER(063)	

ASN.1 ASP Type Definition			
Type Nam	ne CMAC_MA	CMAC_MACe_AckNack_REQ	
PCO Type	e CSAP		
Commen	process had applied to applied to will be con	To request the SS to set operation mode of the Ack/Nack function for the HARQ process hARQProcld. The harqProcld, between 0 to 3 for 10 ms TTI or 0 to 7 for 2 msTTI, is individually applied to the configuration for the normal / nack mode. If the special hARQProcld -1 is used, all active HARQ processes (03 for 10 ms TTI and 07 for 2 ms TTI) will be configured according to ackNackFunction. At the SS initialization Ack/Nack function is in normal operation mode	
	Type Definition		
h <i>l</i>	odeB_Id ARQProcId ckNackFunction	INTEGER(063), INTEGER (-1 07), AckNackFunction	

ASN.1 Type Definition		
Type Name	AckNackFunction	
Comment	normal: put the HARQ process in normal operation mode, it generats the ACK or NACK according to whether the received TB block can be decoded correctly and delivery the correctly decoded data to higher layer. When the MAC_e is configured the HARQ process is in normal operation mode. nack: put the HARQ process in the special operation mode in which the HARQ process always sends NACK for the received TB block till the number of the retransmissions reaches the number indicated in this field. The HARQ process is back to the normal operation mode after the number is reached or received a normal mode request. Except each received TB shall be passed to higher layer, other operations are the same as a real NACK occured.	
	Type Definition	
CHOICE {	NULL, E_DCH_MAC_d_FlowMaxRetrans	

7.3.2.2.17g CMAC_MACe_E_TFC_Restriction (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name CMAC_MACe_E_TFC_Restriction_CNF		
PCO Type	CSAP	
	For MAC emulator to report that a previous attempt of restricting TFCs have been successful.	
Type Definition		
SEQUENCE { nodeB_Id }	INTEGER(063)	

ASN.1 ASP Type Definition			
Type Name	CMAC_MACe_E_TFC_Restriction_REQ		
PCO Type	CSAP		
Comment	To request to configure MACe entity. The field restrictAllowedTFCs is provided to allow the E-TFCI to be restricted. The IE fullE_TFCS will be used to remove any previous E_TFCS restriction configured.		
	Type Definition		
SEQUENCE {	SEQUENCE {		
nodeB_Id restrictAllo	INTEGER (063), wedTFCs CHOICE {		

ASN.1 Type Definition		
Type Name	E_TFCS_Restriction	
	The E_TFCS restriction is a list of E-TFCIs, and can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.	
Type Definition		
SEQUENCE OF INTEGER	(0127)	

7.3.2.2.17h CMAC_MACe_RG (Rel-6 or later)

ASN.1 ASP Type Definition					
Type Name	Type Name CMAC_MACe_RG_CNF				
PCO Type	CSAP				
Comment	Confirm a previous CMAC_MACe_RG_REQ being successful.				
Type Definition					
SEQUENCE {					
nodeB_Id	INTEGER(063)				
}					

ASN.1 ASP Type Definition					
Type Name	Type Name CMAC_MACe_RG_REQ				
PCO Type	CSAP				
For non-serving RL the value for relativeGrant is limited to 'down' and 'hold'. The SS shall convert the hARQProcld to the nearest CFN (and subframe num if TTI = 2 ms) by the SS and send the Relative Grant in that CFN (and subframe number if TTI = 2 ms)					
		Type Definition			
re hA	odeB_Id clativeGrant cRQProcId ctivationTime	<pre>INTEGER(063), ENUMERATED{up(0), down(1), hold(2)}, INTEGER (07), SS_ActivationTime</pre>			

7.3.2.2.17ha CMAC_MACe_Bind_Grant_Tx (Rel-7 or later)

ASN.1 ASP Type Definition					
Type Name	CMAC_MACe_Bind_Grant_Tx_CNF				
PCO Type	CSAP				
Comment	To confirm the request of binding subsequent Absolute/Relative grant transmission The response comes after successful transmission of AG/RG data along with channel to which AG/RG is binded.				
	Cfn and subframe number provides the timing at which the Relative grant transmission was successful. After successful transmission, binding is invalid. (i.e next AG/RG transmission happen without any special restrictions)				
	Type Definition				
SEQUENCE { cellId routingInfo result cfn subframe physicalChannel e_HICH spare1 }	INTEGER(-163), RoutingInfo, Physical channel Id of AG/RG channel ENUMERATED{failure(0), success(1)}, INTEGER(0255), gives the cfn in which it was transmitted INTEGER(04 7), subframe in which it was transmitted 04 when TTI=2ms, 7 when TTI=10ms CHOICE { INTEGER(031), the channel ID				

ASN.1 ASP Type Definition					
Type Name	CMAC_MACe_Bind_Grant_Tx_REQ				
PCO Type	CSAP				
Comment	To request of binding subsequent Absolute/Relative grant transmission with another DL physical channel transmission. On the request, the transmission of the Absolute/Relative grant is temporarily suppressed till SS has transmission ready on channel to which AG/RG is binded				
	Type Definition				
SEQUENCE {					
cellId	INTEGER (-163),				
routingInfo	RoutingInfo, Physical channel Id of AG/RG channel				
physicalChannel	· ·				
e_HICH INTEGER (031), the channel ID					
spare1 NULL					
}					
}					

7.3.2.2.17i CMAC_MACes_SI_IND

ASN.1 ASP Type Definition					
Type Name	CMAC_MACes_S	CMAC_MACes_SI_IND			
PCO Type	CSAP				
Comment	This ASP is used for MACes delivering scheduling information in MAC_es testing. cellId=-1.				
	If the SI was sent alone in a MAC-e PDU or sent together with other MAC-es PDU in a MAC-e PDU but without a special DDI associated the value of specialDDIpresense is set to absent;				
		t together with other MAC-es PDU in a MAC-e PDU with a			
		63) associated the specialDDIpresence is set to present.			
		Type Definition			
SEQUENCE {					
cellId		INTEGER(-163),			
cfn		INTEGER (0255),			
subframe		INTEGER $(04 7)$, 04 when TTI=2ms, 7 when			
TTI=10ms					
specialDDIpresence		<pre>ENUMERATED {absent (0), present (1)},</pre>			
uePowerHeadR	BIT STRING (SIZE(5)),				
_	fferStatus	BIT STRING (SIZE(5)),			
${ t highestPriorityLogChBS}$		BIT STRING (SIZE(4)),			
highestPrior	ityLogChId	BIT STRING (SIZE(4))			
}					

7.3.2.2.17j CMAC_MACes_SI_Config (Rel-6 or later)

ASN.1 ASP Type Definition					
Type N	lame	CMAC_MACes_SI_Config_CNF			
PCO T	Гуре	CSAP			
Comm	nent	Applicable Rel-6 or later			
		To Confirm CMAC_MACes_SI_Config_REQ, cellId=-1.			
	Type Definition				
SEQUENCE	{				
,	cellId	INTEGER(-163)			
[}					

ASN.1 ASP Type Definition				
Type Name	CMAC_MACes_SI_Config_REQ			
PCO Type	CSAP			
	Applicable Rel-6 or later To configure the SS to enable / disable to report the reception of Scheduling Information in MAC-Es PDU's via primitive CMAC_MACes_SI_IND. At the SS initialization, the default mode is SI reporting disabled. cellId=-1.			
Type Definition				
SEQUENCE {	<pre>INTEGER(-163), ble</pre>			

7.3.2.2.17k CMAC_MBMS_ConfigInfo (Rel-6 or later)

ASN.1 ASP Type Definition				
Type Name CMAC_MBMS_ConfigInfo_CNF				
PCO Type	CSAP			
To confirm CMAC_MBMS_Configlnfo_REQ. The routingInfo indical physical channel which carries logical channel of type: MCCH, MSC				
	Type Definition			
SEQUENCE { cellId routing }	INTEGER(063), Info RoutingInfo			

	ASN.1 ASP Type Definition				
Type Name CMAC_MBMS_ConfigInfo_REQ					
PCO Type CSAP					
Comment To provide the SS MCCH or MSCH configuration information. The routingInfindicates the physical channel which carries logical channel of type: MCCH MSCH. This ASP shall be called after the ASP CMAC_Config_REQ used for MCCH MSCH configuration.					
		Type Definition			
SEQUENCE	{ cellId routingI: mCCH_Con: mSCH_Con:	figInfo MBMS_MCCH_ConfigurationInfo_r6 OPTIONAL,			

7.3.2.2.18 CMAC_PAGING_Config

ASN.1 ASP Type Definition				
Type Name	CMAC_PAGING_Config_CNF			
PCO Type CSAP				
Comment	To confirm to setup the paging message			
	Type Definition			
SEQUENCE {	INTEGER(063), nfo RoutingInfo			

ASN.1 ASP Type Definition					
Type Name CMAC_PAGING_Config_REQ					
PCO Type	CSAP				
Comment	To request MAC	layer to send the Paging message on the specified configuration.			
Type Definition					
SEQUENCE {	cellId routingInfo ratType configMessage	<pre>INTEGER(063), RoutingInfo, RatType, CmacPagingConfigReq</pre>			

ASN.1 Type Definition					
Type Name	Type Name CmacPagingConfigReg				
Comment					
		Type Defir	nition		
SEQUENCE {					
pI_BitMa	apInfo	CHOICE {			
e18		BIT STRING	(SIZE	(18)),	
e36		BIT STRING	(SIZE	(36)),	
e72		BIT STRING	(SIZE	(72)),	
e144	1	BIT STRING	(SIZE	(144))	
		},			
dRX_Cycl	leLength	INTEGER	{39	∍},	
iMSI		SEQUENCE (SIZE	(615	5)) OF Digit,	
t_pich_1	$\Gamma_{ extsf{s}}$ sccpch	BOOLEAN	T	T_pich>T_sccpch th	en FALSE
}					

7.3.2.2.19 CMAC_Restriction

ASN.1 ASP Type Definition			
Type Name		CMAC_Restriction_CNF	
PCO Type		CSAP	
Comment		For MAC emulator to report that a previous attempt of restricting TFCs have been successful.	
		Type Definition	
SEQUENCE }	{ cellId routingI	INTEGER(-163), nfo RoutingInfo	

ASN.1 ASP Type Definition		
Type Name	CMAC_Restriction_REQ	
PCO Type	CSAP	
Comment	To request to configure MAC entity. The field restrictAllowedTFCs is provided to allow the UL and/or DL SS TFCS to be restricted for a specific transport channel This information only needs to be sent to the MAC layer, since it is the MAC layer's responsibility to determine the set of valid TFCs each TTI.	
	Type Definition	
SEQUENCE {		
cellId	INTEGER (-163),	
routingInfo	RoutingInfo,	
ratType	RatType,	
restrictAllowedTFCs TFC_Restriction }		

ASN.1 Type Definition		
Type Name	TFC_Restriction	
	This type is used to specify the allowed TFCs within the current TFCS. A TFC restriction is applicable until a subsequent TFC restriction is applied. TFC restrictions are not cumulative, so each TFC restriction completely replaces the previous TFC restriction. The downlink restriction can be used to ensure that the SS uses a specific TFC for transmission of data, by only allowing the 'No data' TFC, and the 'desired' TFC. It may also be necessary to include one or more 'signalling only' TFCs to allow signalling to occur. The uplink restriction can be used to verify that the UE has used a specific TFC. Any data received by the SS using a forbidden TFCI shall be discarded.	
	Type Definition	
SEQUENCE { ulTFCI_Restr dlTFCI_Restr }	riction TFC_Subset OPTIONAL	
Detailed Comments NO	 The SS MAC layer shall not use a restrictednon-allowed TFC for DL. The SS MAC layer shall not use a TFC that requires the SS RLC layer to provide padding PDUs (3GPP TS 25.322 [18]) In the case that there is data pending on one or more RLC entities, but not enough to use one of the allowed TFCs: a. The SS MAC layer shall use the 'No data' TFC until there is enough data in the RLC to use another allowed TFC. b. The SS RLC layer shall buffer the data until there is enough data in the RLC entities for the MAC layer to use an allowed TFC other than the 'No data' TFC for transmission of the data. The TTCN author is responsible for ensuring: The SDU discard function is not configured for TM and UM entities in the UE, and is configured to no_discard for AM entities in the UE. That RLC SDUs that are expected to be sent in the same TTI (due to a TFC restriction) are sent as quickly as possible to minimize the number of 'no data' TFCs used by the MAC layer, and the amount of buffering that must be performed by the RLC layer. requirements for uplink: SS shall discard all data received using a restricted non-allowed TFC. 	

7.3.2.2.20 CMAC_SecurityMode_Config

ASN.1 ASP Type Definition		
Type N	Type Name CMAC_SecurityMode_Config_CNF	
PCO T	PCO Type CSAP	
Comment		To confirm to configure the MAC security mode
Type Definition		
SEQUENCE }	{ cellId	INTEGER(-163)

ASN.1 ASP Type Definition		
Type Name CMAC_SecurityMode_Config_REQ		
PCO Type	CSAP	
	To request to configure the MAC security mode. If there are several CMAC_Ciphering_Activate_REQ follow this ASP, the SS shall take a serial of specified actions on the same contents in this ASP at the activation time indicated in each CMAC_Ciphering_Activate_REQ.	
	Type Definition	
SEQUENCE {	<pre>INTEGER(-163), ringInfo SecurityInfo</pre>	

7.3.2.2.21 CMAC_SequenceNumber

ASN.1 ASP Type Definition		
Type N	lame	CMAC_Sequence_Number_CNF
PCO T	уре	CSAP
		To return the requested counter sequence number on MAC-d DCH. The physicalChannelIdentity of DPCH applies to routingInfo.
		Type Definition
SEQUENCE	{ cellId routingIn count_C_I count_C_I	MSB_UL COUNT_C_MSB ,

ASN.1 ASP Type Definition		
Type Na	ame	CMAC_SequenceNumber_REQ
PCO Type CSAP		CSAP
Comment		To request the MAC layer to return current counter sequence numbers. The physicalChannelIdentity of DPCH applies to routingInfo.
		Type Definition
SEQUENCE }	{ cellId routingIn	INTEGER(-163), nfo RoutingInfo

7.3.2.2.22 CMAC_SYSINFO_Config

ASN.1 ASP Type Definition			
Type Name	Type Name CMAC_SYSINFO_Config_CNF		
PCO Type CSAP		CSAP	
Comment	Comment To confirm to setup the system information block		
	Type Definition		
	ellId outingIn	INTEGER(063), nfo RoutingInfo	

ASN.1 ASP Type Definition				
Type Name	CMAC_SYSINFO	_Config_REQ		
PCO Type	PCO Type CSAP			
Comment	To request MAC I	ayer to send the BCCH message on the specified configuration.		
Type Definition				
SEQUENCE {				
	cellId	INTEGER(063),		
	routingInfo	RoutingInfo,		
	ratType	RatType,		
	configMessage	CmacSysinfoConfigReq		
}				

ASN.1 Type Definition		
Type Name C	CmacSysinfoConfigReq	
Comment		
	Type Definition	
SEQUENCE {		
sg_REP	INTEGER (212), Repetition period is the sq REP-th power of 2.	
sg_POS	INTEGER (02047),	
bcch_Modificat	The position of each segment is 2 * sg_POS. cionTime BCCH_ModificationTime OPTIONAL	

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_TestDataReq on the different DL RBs in the same TTI.	
	Type Definition	
SEQUENCE {	<pre>INTEGER(-163), ENUMERATED{failure(0), success(1)}</pre>	

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

7.3.2.2.22b CRLC_BindTestDataInOneMAChs_MACehs_PDU (Rel-5 or later)

ASN.1 ASP Type Definition		
Type Name	CRLC_BindTestDataInOneMAChs_MACehs_PDU_CNF	
PCO Type	CSAP	
Comment	To confirm the request of binding subsequent data sending	
	RLC_TR/UM/AM_TestDataReq on the specified RB mapped on HS-DSCH in the	
	same MAC-hs/MAC-ehs PDU.	
	Type Definition	
SEQUENCE {		
cellId	INTEGER(-163),	
routingInfo	RoutingInfo, RB ID desired to be given	
result	<pre>ENUMERATED{failure(0), success(1)}</pre>	
}		

ASN.1 ASP Type Definition			
Type Name	CRLC_BindTestDataInOnel	MAChs_MACehs_PDU_REQ	
PCO Type	CSAP		
Comment	on the specified RB mapped On the request, the transmi- radio bearers till 'numOfSDU	equent data sending RLC_TR/UM/AM_TestDataReq d on HS-DSCH in the same MAC-hs/MAC-ehs PDU. ssion of the test data is temporarily suppressed on the U's' are received by RLC layer on the Radio Bearer. RLC layer submits to MAC such that all of them are ehs PDU.	
	Type D	Pefinition	
routingInfo	INTEGER(-163), RoutingInfo, INTEGER	RB ID desired to be given Number of RLC SDU's	

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)	
J		

	ASN.1 ASP Type Definition
Type Name	CRLC_Ciphering_Activate_REQ
PCO Type	CSAP
Comment	To request to start orrestart downlink ciphering or uplink deciphering. Each call of 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 stored. For RLC_UM COUNT-C: If the value of incHFN is set to "NotInc" the SS initialiszes the remaining LSBs of HFN component in UM COUNT-C to zero. If the value of incHFN is set to "Inc" the SS initializes the remaining LSBs of HFN component in UM COUNT-C to zero, then increments the HFN by one. For RLC_AM COUNT-C: If the value of incHFN is set to "NotInc" no further action is needed. If the value of incHFN is set to "Inc" the SS increments the HFN by one.
	Type Definition
_	INTEGER(-163), RatType, nIdentity CN_DomainIdentity, vationInfo CiphActivationInfo, RLC_IncMode

ASN.1 Type Definition		
Type Name	CiphActivationInfo	
Comment DL or UL ciphering activation info If RB is omitted in rB_UL_CiphActivationTimeInfo the SS takes no action on the RB and the ciphering configuration keeps unchanged on this RB. CipheringModeCommand = dummy NULL means no ciphering.		
	Type Definition	
rb_U	eringModeInfo CipheringModeInfo, L_CipheringActivationTimeInfo RB_ActivationTimeInfoList, eringModeInfo_r7 Rel-7 or later	

ASN.1 Type Definition		
Type Name	RLC_IncMode	
Comment		
Type Definition		
<pre>ENUMERATED{notInc(0), inc(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),	
<pre>routingInfo RoutingInfo }</pre>		

ASN.1 ASP Type Definition		
Type Name	CRLC_Config_REQ	
PCO Type	CSAP	
Comment	To request to setup, rec	onfigure or release RLC entity
	Туқ	pe Definition
ratT	ingInfo i pe i	INTEGER(-163), RoutingInfo, RatType, CrlcConfigReq

		ASN.1 Type Definition
Ту	pe Name	CrlcConfigReq
The Stop parame RLC PDUs. The C transmission and protocol paramete not affected. Trigg		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 Nai	ne	RBInfo			
Comme	nt				
			Type Definition		
SEQUENCE {	sS_rlc rB_Log	c_Info gCH_Mapping	SS_RLC_Info RB_LogCH_Mapping	OPTIONAL,	

ASN.1 Type Definition				
Type Name	RB_LogCH_Mapping			
	When the logical channel i with MBMS_LogicalChIde	on between RB, logical chanr s MTCH, the logicalChannello ntity in MBMS_PTM_RBInforn on_C being sent to the UE.	dentity shall be consistent	
	Type Definition			
SEQUENCE {				
uLlogicalChannelIdentity		LogicalChannelIdentity	OPTIONAL,	
dLlogicalChannelIdentity		LogicalChannelIdentity	OPTIONAL,	
logicalChannelType		LogicalChannelType	OPTIONAL,	
cn_DomainIdentity		CN_DomainIdentity	OPTIONAL	

		ASN.1 Type Definition
Type Nai	me	SS RLC Info
Comme	nt	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 [21] 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
:	sS_dl_RL rlc_OneS: altE_bit appli useSpeci	DL_RLC_Mode OPTIONAL, C_Mode SS_DL_RLC_Mode OPTIONAL, C_Mode SS_DL_RLC_Mode OPTIONAL, C_Mode OPTION

ASN.1 Type Definition		
Type Name	SS_DL_RLC_Mode	
Comment	'dl_UM_outOfSeqDelivery' is present only for the DL_RLC entity connected to MCCH, and in the configuration with dl_UM_outOfSeqDelivery present the UM RLC can transmit RLC PDU containing SDU of ACCESS INFORMATION message out of sequence when it is necessary Maximum one among dl_RLC_PDU_size & dl_PayloadSize shall be included. For RLC UM configuration, with altE_bitInterpretation set to TRUE, neither dl_PayloadSize nor dl_RLC_PDU_size can be present.	
	Type Definition	
SEQUENCE {		
dl_PayloadSize	PayloadSize OPTIONAL,	
dl_RLCModeInfo	UL_RLC_Mode,	
dl_UM_RLC_LI_siz	DL_UM_RLC_LI_size OPTIONAL, only for UM RLC configuration of Rel-5 or later	
dl_UM_outOfSeqDe		
dl_RLC_PDU_size		
	OctetModeRLC_SizeInfoType1,	
flexibleSize		
} OPTIONAL }	Only for AM RLC Configuration of Rel-7 or later	

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

ASN.1 Type Definition	
Type Name	SS_FlexibleSize
Comment	Rel-7 or later
	If max_RLC_SDU_Size is present, SS shall guarantee that the size of data field
	of DL RLC PDU does not exceed the size specified in Bytes.
Type Definition	
SEQUENCE {	
li_Size ENUMERATED { size7 (0), size15 (1)}, Size of length indicator	
max_RLC_SDU_Size INTEGER (11500) OPTIONAL	
- Maximum size of data field of RLC PDU (25.322, 9.2.2.9 and 25.433, 9.2.1.38c)	
}	

7.3.2.2.25 CRLC_Integrity_Activate

ASN.1 ASP Type Definition		
Type Name	CRLC_integrity_Activate_CNF	
PCO Type	CSAP	
Comment	To confirm to activate or inactivate the integrity protection	
Type Definition		
SEQUENCE {	INTEGER(-163)	

ASN.1 ASP Type Definition			
Type Name	CRLC_Integrity_Activa	ate_REQ	
PCO Type	CSAP		
Comment	ASP shall be called be integrity on all SRBs in COUNT-I to the STAR component in COUNT If integrityModeCommstart the downlink integrityModeCom	and in ASP is set to "startIntegrityProtection", the SS shall grity protection from the first downlink RRC message. Inmand in ASP is set to "modify", the SS shall start the section at the RRC message sequence number specified in	
	Type Definition		
SEQUENCE {			
cellI	· 	INTEGER (-163),	
_	mainIdentity rityActivationInfo	CN_DomainIdentity, IntegrityActivationInfo	

ASN.1 Type Definition			
Type Name	IntegrityActivationInfo		
	DL or UL integrity active		
		sequence numbers specified in the	
	ul_IntegProtActivation	Info the SS shall initialize COUNT-I for the SRB's indicated	
		ActivationInfo and start using the new configuration on	
	uplink for the indicated	d SRB's.	
		omitted in the CRLC_SecurityMode_Config_REQ above	
	COUNT-I initialization	shall not be performed.	
	Type Definition		
CHOICE {			
integrityProtectionModeInfo		IntegrityProtectionModeInfo,	
3			
integrityPro	tectionModeInfo_r7	integrityProtectionModeInfo_r7 Rel-7 or later	
		<pre>IntegrityProtectionModeInfo, IntegrityProtActivationInfoList, IntegrityProtectionModeInfo_r7 Rel-7 or later</pre>	

ASN.1 Type Definition		
Type Name	IntegrityProtActivationInfoList	
Comment	List of SS IntegrityProtActivationInfo	
Type Definition		
SEQUENCE (SIZE (1ma	axRB)) OF SS_IntegrityProtActivationTimeInfo	

ASN.1 Type Definition		
Type Name	SS_IntegrityProtActivationTimeInfo	
Comment	Omitting rrc_MessageSequenceNumber means activation time set to "now".	
	Type Definition	
SEQUENCE {		
rb_Identity rrc_MessageS	INTEGER (-3132), SequenceNumber RRC MessageSequenceNumber OPTIONAL	
}	204 annound mo no na	

7.3.2.2.26 CRLC_Integrity_Failure

ASN.1 ASP Type Definition			
Type Name	CRLC_Integrity_Failure_IND		
PCO Type	CSAP		
Comment	RLC emulator reports the occurrences of a failure in integrity protection, i.e. reception of an integrity-protected RLC AM/UM SDU containing a non-matching X-MAC value compared to the desired.		
	Type Definition		
fail	Id INTEGER(-163), ingInfo RoutingInfo, ureCause ENUMERATED { codeNotMatched(0) } he enumerated types of failure cause field is ffs		

7.3.2.2.26a CRLC_MAC_I_Mode

ASN.1 ASP Type Definition		
Type Name	CRLC_MAC_I_Mode_CNF	
PCO Type	CSAP	
Comment	Confirm a previous CRLC_MAC_I_Mode_REQ being successful.	
Type Definition		
SEQUENCE {		
cellId	INTEGER(-163),	
srbId	INTEGER(04)	
}		

ASN.1 ASP Type Definition		
Type Name CRLC_MAC_I_Mode_REQ		
PCO Type	CSAP	
Comment To set the MAC-I calculation mode. The ASP does not affect the UL integrity calculation. If mode = normal, the SS generates the correct MAC-I. If mode = erroneous, the SS generates any wrong MAC-I value different from one it shall be. As default, when the integrity protection is jswitched on the SS enters the not MAC-I calculation mode.		
Type Definition		
SEQUENCE {	<pre>INTEGER(-163), INTEGER (04), ENUMERATED {normal(0), erroneous(1)}</pre>	

7.3.2.2.26b CRLC_NotAckNxtRxSDU

ASN.1 ASP Type Definition		
Type Name	CRLC_NotAckNxtRxSDU_CNF	
PCO Type	CSAP	
Comment	To confirm that the next received SDU has not been acknowledged.	
Type Definition		
SEQUENCE {	INTEGER(-163), nfo RoutingInfo	

ASN.1 ASP Type Definition			
Type Name	CRLC_NotAckNxtRxSDU_REQ		
PCO Type	CSAP		
Comment	Comment To request that the next received SDU is not acknowledged. The received SDU is		
	passed to the upper layers.		
	Type Definition		
SEQUENCE {	SEQUENCE {		
cellId	INTEGER(-163),		
routingInfo RoutingInfo,			
mode	<pre>ENUMERATED{start(0)}</pre>		
}			

7.3.2.2.26c CRLC_ProhibitRLC_Ack

The use of the pair of ASPs should be restricted to each start of SRB3 Uplink ciphering only. The SS behaviours are not specified if the ASPs are used in any other procedures.

ASN.1 ASP Type Definition			
Type N	lame	CRLC_ProhibitRLC_Ack_CNF	
PCO 1	PCO Type CSAP		
Comn	Comment To confirm that the reception of a CRLC_ProhibitRLC_Ack_REQ.		
	Type Definition		
SEQUENCE }	{ cellId routingIn supportF	5 '	

ASN.1 ASP Type Definition			
Type Name	CRLC_ProhibitRLC_Ack_REQ		
PCO Type	CSAP		
Comment	Comment To request the SS to prohibit/Continue acknowledging RLC SDUs.		
	Type Definition		
SEQUENCE {	<pre>INTEGER(-163), nfo</pre>		

ASN.1 Type Definition		
Type N	ame	SupportFlag
Comm		The default value noNeed indicates that the SS does not perform the operation mentioned in CRLC_ProhibitRLC_Ack_REQ, but performs the suspension / resume of UL RLC PDU data. If the non default values are taken, the SS has either prohibited, or continued acknowledging RLC SDUs.
Type Definition		
ENUMERATED	ENUMERATED {ackProhibited(0), ackContinued(1), noNeed (2)}	

7.3.2.2.27 CRLC_Resume

ASN.1 ASP Type Definition			
Type Name	Type Name CRLC_Resume_CNF		
PCO Type	PCO Type CSAP		
Comment	Comment To confirm the resume request		
	Type Definition		
SEQUENCE { cellId			

	ASN.1 ASP Type Definition		
Type N	Name	CRLC_Resume_REQ	
PCO 1	Гуре	CSAP	
Comn		To request to resume data transmission. If the SS implemented the optional suspension of UL data PDUs, then the	
		processing in the UL of data PDUs shall be resumed. Any suspended UL control PDUs and Piggybacked Status shall be preceeded or resumed.	
		Type Definition	
SEQUENCE }	{ cellId routingI	INTEGER(-163), nfo RoutingInfo	

7.3.2.2.27a CRLC_RRC_MessageSN

ASN.1 ASP Type Definition		
Type N	lame	CRLC_RRC_MessageSN_CNF
PCO 1	Гуре	CSAP
sending t the conce		To return the counter I values (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 routingI: count_I_; count_I_; count_I_;	ASB_UL COUNT_I_MSB, LSB_UL RRC_SequenceNumber, ASB_DL COUNT_I_MSB,

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	
Comment	To request the SS to return the values in COUNT-I for sending the next DL RRC message or for receiving the next UL RRC message on the concerned SRB.	
	Type Definition	
SEQUENCE {	INTEGER(-163), nfo RoutingInfo	

7.3.2.2.28 CRLC_SecurityMode_Config

ASN.1 ASP Type Definition		
Type Nai	me	CRLC_SecurityMode_Config_CNF
PCO Ty	ре	CSAP
Comment		To confirm to configure the RLC security mode If several subsequent CRLC_Integrity_Activate_REQ or CRLC_Ciphering_Activate_REQ follow this ASP, the SS shall take a serial of specified actions on the same contents in this ASP at the activation time indicated in each CRLC_Integrity (or Ciphering)_Activate_REQ.
		Type Definition
SEQUENCE ({ cellId	INTEGER(-163)

ASN.1 ASP Type Definition			
Type Nar	Type Name CRLC_SecurityMode_Config_REQ		
PCO Typ	PCO Type CSAP		
Comme	nt	To request to configure the RLC security mode	
	Type Definition		
SEQUENCE { cellId			

ASN.1 Type Definition				
Type Name	SecurityIn	fo		
Comment	The integr	rityKey is not a	pplicable to MAC	
		7	Type Definition	
SEQUENCE{				
Cn_D	omainIdenti	ity	$ exttt{CN}_{ exttt{D}} exttt{DomainIdentity},$	
star	tValue		START_VALUE	OPTIONAL,
_	eringKey		BITSTRING(128)	OPTIONAL,
	grityKey		BITSTRING(128)	OPTIONAL,
gsmC	ipheringKey	<i>!</i>	BITSTRING(64)	OPTIONAL
}				
Detailed Comments Contents is not activate CRLC_Ciphering_Activate CRLC_Integrity_Activate subsequent ASP and activate contents and activate contents and activate contents and activate contents and activate cruzial and activate cruz		ot activated ur ering_Activate_ rity_Activate_F ent ASP at the		ASP, vate_REQ or yInfo shall not be affected by
	EXAMPLE:	COUNT-C or	tartValue indicates not to re-in COUNT-I, omitting of ciphering tring key is valid.	

7.3.2.2.28a CRLC_SetRRC_MessageSN

ASN.1 ASP Type Definition			
Type Name	CRLC_SetRRC_MessageSN_CNF		
PCO Type	PCO Type CSAP		
Comment To confirm the RRC message sequence number setting request			
	Type Definition		
SEQUENCE { cellId			

ASN.1 ASP Type Definition		
Type Name	CRLC_SetRRC_MessageSN_REQ	
PCO Type	CSAP	
Comment	To request the SS to set the RRC message sequence number in COUNT-I to the	
	value specified in this ASP. The ASP is used to initialize SS RRC SN.	
	Type Definition	
SEQUENCE {		
cellId	INTEGER(-163),	
routingI	nfo RoutingInfo,	
count_I_	LSB_UL RRC_SequenceNumber OPTIONAL,	
count_I_	LSB_DL RRC_SequenceNumber OPTIONAL	
}		

7.3.2.2.28b CRLC_Set_Count_I

ASN.1 ASP Type Definition		
Type N	lame	CRLC_Set_Count_I_CNF
PCO Type CSAP		CSAP
Comment To confirm the count_I_MSB and the RRC message sequence number set		To confirm the count_I_MSB and the RRC message sequence number setting
		request
		Type Definition
SEQUENCE	{	
	cellId	INTEGER(-163),
routingInfo		nfo RoutingInfo
}		

ASN.1 ASP Type Definition		
Type Name	CRLC_Set_Count_I_REQ	
PCO Type	CSAP	
Comment	request the SS to set the 28 MSB and 4 LSB (RRC message sequence mber) in COUNT-I according to the parameter values specified in this ASP. trameters omitted in this ASP shall leave the corresponding bits in the SS DUNT-I unchanged. pically the parameters count_I_MSB_UL and count_I_MSB_DL are omitted. ey are only applied in a few specific security test cases requiring restoration of a used integrity context. DTE: The 28 MSBs are initialized with the UE-provided START value plus 8 bits set to 0, using a different ASP (CRLC_SecurityMode_Config_REQ).	
	Type Definition	
SEQUENCE { cellId routing count_I count_I count_I }	LSB_UL RRC_SequenceNumber OPTIONAL, LSB_DL RRC_SequenceNumber OPTIONAL, MSB_UL COUNT_I_MSB OPTIONAL,	

7.3.2.2.29 CRLC_SequenceNumber

ASN.1 ASP Type Definition			
Type Na	ame	CRLC_Sequence_Number_CNF	
PCO T	уре	CSAP	
		To return the requested counter sequence number to which the next DL PDU to be sent or the expected UL PDU to be received.	
Type Definition			
SEQUENCE	{ cellId routingIn count_C_I count_C_I count_C_I	MSB_UL COUNT_C_MSB, LSB_UL RLC_SequenceNumber, MSB_DL COUNT_C_MSB,	

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

7.3.2.2.29a CRLC_SendContinuousData_TTI

ASN.1 ASP Type Definition			
Type N	lame	CRLC_SendContinuousData_CNF	
PCO Type CSAP		CSAP	
Comment		Confirm sending data in every TTI on each requested RB	
	Type Definition		
SEQUENCE }	{ cellId result	<pre>INTEGER(-163), ENUMERATED{failure(0), success(1)}</pre>	

ASN.1 ASP Type Definition		
Type Name	CRLC_SendContinuousData_REQ	
PCO Type	CSAP	
Comment	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 {	INTEGER(-163), o 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 Ty	pe Definition
Type Name	RbTxInfo	
	actual test data is extracte the raw testData buffer. So The value nomOfSdu = T	al DL test data size (SDU_Size * number of SDUs). The d from the first (SDU_Size * number of SDUs) bits in S shall transmit the actual test data in every TTI. / TTI, whereby T=1200 is the duration of the data st, taking into account the test tolerance (+50 %) of the 0 ms).
	Туре	Definition
SEQUENCE {		
rB_Identity	INTEGER	(-3132),
sduSize	INTEGER	(1163840),
nomOfSdu }	INTEGER	(0255) 0 is set for no data on this RB

7.3.2.2.30 CRLC_Status

ASN.1 ASP Type Definition			
Type N	ame	CRLC_Status_IND	
PCO T	уре	CSAP	
Comm	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 routingIn ratType statusIn	RatType,	

ASN.1 Type Definition			
Type Name		CrlcStatusInd	
Comment			
Type Definition			
,	,		

7.3.2.2.31 CRLC_Suspend

ASN.1 ASP Type Definition			
Type Name CRLC_Suspend_CNF		CRLC_Suspend_CNF	
PCO Type		CSAP	
Comment		To confirm the suspension of data transmission. The parameter vt indicates either the value of the Send State Variable VT(S) for AM, or the value of Data State Variable VT(US) for UM.	
Type Definition			
SEQUENCE	{ cellId routingIn vt	INTEGER(-163), fo RoutingInfo, RLC_SequenceNumber	

ASN.1 ASP Type Definition			
Type Name	CRLC_Suspend_REQ		
PCO Type	CSAP		
Comment	To request the suspension of data transmission. The parameter n indicates that an RLC entity will not send a PDU with "Sequence Number"≥VT(S)+N for AM and "Sequence Number"≥VT(US)+N for UM, where N is a non-negative integer. Optionally an SS may start immediate suspension of processing of data PDUs in the UL. The UL control PDUs and Piggybacked Status may optionally be processed.		
Type Definition			
SEQUENCE {	INTEGER(-163), nfo RoutingInfo, RLC_SequenceNumber		

7.3.2.2.31a CRLC_MTCH_Scheduling (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name	CRLC_MTCH_Scheduling_CNF		
PCO Type	CSAP		
Comment	To confirm the CRLC_MTCH_Scheduling_REQ		
Type Definition			
SEQUENCE {			
cellId	INTEGER(-163),		
routingInfo	RoutingInfo		
}			

ASN.1 ASP Type Definition					
Type Name	CRLC_MTCH_Scheduling_REQ				
PCO Type	CSAP				
Applied to the RLC entity carrying MTCH. MBMS serviceSchedulingInfo can contain a list of MBMS ServiceSchedulingInfor multiple consecutive scheduling periods of discountinous MBMS services. mSCH_REPconfiguration provides the timing of scheduling periods. serviceShedulingInfos provides a list of SS_ServiceSchedulingInfo correspon to multiple scheduling periods. On or after the start and within the duration of a MBMS session, the RLC beh as normal entity. Outside of these ranges the RLC regards the buffer occupar as being zero, prohibiting the MAC from requesting PDU's. The same is valid the service silence period (noServcieData). Each call of the ASP replaces the existing whole scheduling information list of creates a new scheduling information list if the list does not exist. The absence of IE mSCH_REPconfiguration and schedulingInfoInfos indicate continuous MBMS services. The SS shall delete the existing scheduling					
Type Definition					
SEQUENCE {	<u> </u>				

ASN.1 Type Definition			
Type Name	ServiceSchedulingInfoList		
Comment	ment Multiple ServiceSchedulingInfo can be submitted to the SS. Each		
ServiceSchedulingInfo corresponds to a MSCH scheduling period.			
Type Definition			
SEQUENCE (SIZE(1 M	axNumMSCHMsgs))OF SS_ServiceSchedulingInfo		

ASN.1 Type Definition			
Type Name	SS_ServiceSchedulingInfo		
Comment	The IE is applied to the discontinuous MBMS service and contains pairs of 'start' and 'duration' within a scheduling period. The start value indicates the start of the service transmission in number of 4-frames relative to: either the 1 st TTI on which the MBMS SCHEDULING INFORMATION message of the corresponding scheduling period is sent if MSCH is configured; or the IE scheduledSFN value in MSCH_REPconfiguration if MSCH is not configured. The duration value indicates how long the service is transmitted in unit of 4-frames. noServiceData is applied to the scheduling period when no MBMS service data		
Type Definition			
<pre>CHOICE {</pre>	TransmInfoList MBMS_ServiceTransmInfoList, a NULL		

7.3.2.2.32 CBMC_Config

ASN.1 ASP Type Definition			
Type I	Name	CBMC_Config_CNF	
PCO Type		CSAP	
Comment		To confirm the BMC configuration, reconfiguration or release.	
Type Definition			
SEQUENCE }	{ cellId routingI	INTEGER(063), nfo RoutingInfo RBid	

ASN.1 ASP Type Definition			
Type Name	CBMC_Config_REQ		
PCO Type	CSAP		
Comment	To request the configuration, reconfiguration or release of BMC.		
Type Definition			
SEQUENCE {			
cellId	INTEGER(063),		
routingInfo	RoutingInfo, RBid		
configMessage	e CHOICE {		
setup	BMC_SchedulingInfo,		
release	$\mathtt{NULL}\}$		
}	•		

7.3.2.2.32b DEC_PERbitstring

ASN.1 ASP Type Definition			
Type Name	DEC_PERbitstring_CNF		
PCO Type	ExternalAsn1Codec		
Comment	To receive the decoded BIT STRING.		
Type Definition			
SEQUENCE { containedType	ContainedType		
} containedType	ConcarnedType		

ASN.1 ASP Type Definition			
Type Name	DEC_PERbitstring_REQ		
PCO Type	ExternalAsn1Codec		
Comment	To request decoding of the BITSTRING recived from UE in receivedBITSTRING		
	with the type specified in containingType.		
Type Definition			
SEQUENCE {			
receivedBITSTRIN	G BIT STRING,		
containingType	ContainingPERbitstringType		
}			

ASN.1 PDU Type Definition				
Type Name	ContainedType			
PDU Type	ContainingDecoder			
Comment				
Type Definition				
CHOICE {	CHOICE {			
ue_CapabilityContain	er_IEs	<pre>UE_CapabilityContainer_IEs,</pre>		
rrcConnectionSetupComplete_r3_add_ext_IEs		RRCConnectionSetupComplete_r3_add_ext_IEs,		
ueCapabilityInformation_r3_add_ext_IEs		<pre>UECapabilityInformation_r3_add_ext_IEs,</pre>		
interRATHandoverInfo_r3_add_ext		<pre>InterRATHandoverInfo_r3_add_ext_IEs,</pre>		
interRATHandoverInfo		InterRATHandoverInfo,		
uE RadioAccessCapabilityInfo		UE RadioAccessCapabilityInfo		
}				

	ASN.1 Type D	efinition
Type Name	ContainingPERbitstringType	
Comment		
	Type Defir	ition
ENUMERATED		
{		
ue_CapabilityCon	tainer_IEs	(0),
rrcConnectionSet	upComplete_r3_add_ext_IEs	(1),
ueCapabilityInfo	rmation r3 add ext IEs	(2),
interRATHandoverInfo r3 add ext IEs		(3),
interRATHandoverInfo		(4),
uE RadioAccessCa	pabilityInfo	(5)
}		

7.3.2.2.32c ENC_PERbitstring

ASN.1 ASP Type Definition			
Type Name	ENC_PERbitstring_CNF		
PCO Type	PCO Type ExternalAsn1Codec		
Comment	To receive the encoded BIT STRING.		
Type Definition			
SEQUENCE { encodedBITSTRING	BIT STRING		
}			

	ASN.1 ASP Type Definition		
Type Name	ENC_PERbitstring_REQ		
PCO Type	ExternalAsn1Codec		
Comment	mment To request encoding of asn.1 PDU or IE.		
Type Definition			
<pre>CHOICE { mcchMessage }</pre>	MCCH_Message		

7.3.2.2.33 RLC_TR_DATA

	ASN.1 A	ASP Type Defi	nition
Type Name	Type Name RLC_TR_DATA_REQ		
PCO Type	DSAP		
Comment	To request to transmit	DATA using tra	ansparent mode.
	Ty	ype Definition	
SEQUENCE {			
	cellId	INTEGER (-1.	.63),
	routingInfo	RoutingInfo	,
	tM_Message	CHOICE {	
	dL DCCH Message		DL DCCH Message,
	dL CCCH Message DL CCCH Message,		
	pCCH Message PCCH Message,		
	dL SHCCH Messag	е	DL SHCCH Message,
	bCCH FACH Messa	ge	BCCH FACH Message,
	bCCH BCH Messag	e	BCCH BCH Message }
}	5		= = · ·

	ASN.1 ASP Type Definition	
Type Name	RLC_TR_DATA_IND	
PCO Type	DSAP	
Comment	To indicate to receive DATA using transparent mode.	
	Type Definition	
SEQUENCE {	- · · · · · · · · · · · · · · · · · · ·	

7.3.2.2.34 RLC_AM_DATA

		ASN.1 ASP	Type Definition
Type Name RLC AM DATA REQ			
PCO T	уре	DSAP	
Comm	nent	To request to transmit DA	TA using acknowledged mode.
		Type	Definition
SEQUENCE	{ cellId routingI; confirma aM_Messa;	nfo Routin tionRequest AmConf	irmationRequest, { DL_DCCH_Message, DL_CCCH_Message, PCCH_Message, DL_SHCCH_Message, BCCH_FACH_Message, BCCH_BCH_Message,

ASN.1 Type Definition			
Type Name	AmConfirmationRequest		
	Comment If the noConfirmationRequested option is used, then an RLC_AM_DATA_CNF in not expected from the RLC AM entity. If the confirmationRequested option is used, then the RLC AM entity is being requested to provide an RLC_AM_DATA_CNF primitive containing the same M value.		
	Type Definition		
	mationRequest NULL, tionRequested Mui		

ASN.1 Type Definition		
Type Name	Mui	
Comment		
Type Definition		
INTEGER {04095}		

		ASN.1	ASP Type Def	inition	
Type N	lame	RLC_AM_DATA_IND			
PCO T	уре	DSAP			
Comm	nent	To indicate to receive	DATA using a	cknowledged mode.	
		T	ype Definition	1	
SEQUENCE	{ cellId routingIn integrit; aM_Message	yResult),	

			ASN.1 Type Definition	
Type	Name	IntegrityResult		
Com	ment			
	Type Definition			
CHOICE {	integrity integrity		NULL, IntegrityStatus	

		ASN.1 Type Definition
Type Name	IntegrityStatus	
Comment		
		Type Definition
ENUMERATED {		
i_pass(0), i_fail(1)		
}		

ASN.1 ASP Type Definition			
Type Name	RLC_AM_DATA_CNF		
PCO Type	DSAP		
Comment	For RLC emulator to report to the upper layer that a previously transmitted SDU		
	has been acknowledged correctly by the UE		
	Type Definition		
SEQUENCE { cellId routingInfo mui }	<pre>INTEGER(-163), RoutingInfo, Mui</pre>		

7.3.2.2.34a RLC_UM_ACCESSinfo (Rel-6 or later)

	ASN.1 ASP Type Definition			
Type Name	RLC_UM_ACCESSinfo_REQ			
PCO Type	DSAP			
To request to transmit ACCESS INFORMATION messages using unacknowledged mode. This ASP is valid for the RLC entity configured for the logical channel MCCH. When an RLC_UM_ACCESSinfo_REQ with uM_Messages present is receive the ongoing transmission of ACCESS INFORMATION, if any, shall be stopp the modification period indicated by startingTime. At the same time, the SS stransmitting the ACCESS INFORMATION messages passed by the ASP, the repeats the transmission in each next modification period. When an RLC_UM_ACCESSinfo_REQ without uM_Messages is received the stops the ongoing ACCESS INFORMATION transmission at the modification.				
	period specified by startingTime. Type Definition			
SEQUENCE {	INTEGER(-163), RoutingInfo,			

ASN.1 Type Definition		
Type Name	Al_MsgList	
Comment	Al_MsgList is an ordered list of Al messages. The order corresponds to the Al_Msg transmission timing in a modification period. A modification period can have 1, 2, 4 or 8 access information periods depending on MCCH configuration. The size of the list shall be consistent with the MCCH configuration.	
Type Definition		
SEQUENCE (SIZE(1 2	4 8))OF AI_Msg	

ASN.1 Type Definition			
Type Name	AI_Msg		
	The al_Message is sent on the first TTI of the access information period. If the corresponding al_Message is empty there is no ACCESS INFORMATION scheduled for that access information period.		
Type Definition			
CHOICE {	CHOICE {		
aI_Message	MBMSAccessInformation,		
<pre>aI_EmptyMsg }</pre>	NULL		

7.3.2.2.34b RLC_UM_CriticalMCCHMsg (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name RLC_UM_Critical		RLC_UM_CriticalMCCHMsg_REQ	
PCO Ty	/pe	DSAP	
To request to tranship to the SS of		To request to transmit critical MCCH messageList using unacknowledged This ASP is valid only for the RLC entity configured for the logical channed When an RLC_UM_CriticalMCCHMsg_REQ with non-empty uM_Message received the SS stops ongoing critical MCCH information transmission in modification period indicated by startingTime. At the same time, the SS stransmitting the set of critical MCCH messageList passed by the ASP in the order as they appear in the uM_MessageList, and then repeats the transmin each next repetition period until another RLC_UM_CriticalMCCHMsg_received to modify the critical messages at start of the next modification period until another RLC_UM_CriticalMCCHMsg_REQ without uM_Messages is received to modify the critical MCCHMsg_REQ without uM_Messages is received to startingTime. If specialLI is set to TRUE all SUDs sent within the RLC_UM_CriticalMCCHMsg_REQ have the special LI set to indicate begithe RLC_SDU.	el MCCH. Jes is the tarts he same mission REQ is period. ceived dification
		Type Definition	
SEQUENCE }	{ cellId routingIn startingIn uM_Messag specialLin	Time INTEGER(04095), pointing to the first frame of a modificat ges MCCH_MessageList OPTIONAL,	ion

ASN.1 Type Definition		
Type Name MCCH_MessageList		
Comment	Comment MBMSAccessInformation shall not be included in the MCCH_MessageList.	
Type Definition		
SEQUENCE (SIZE(1maxNumMCCHMsgs))OF MCCH_MessageType		

ASN.1 Type Definition		
Type Name maxNumMCCHMsgs		
Comment For covering the configuration with 20 neighbouring cells		
Type Definition		
INTEGER (25)		

7.3.2.2.34c RLC_TR_SeqOfRlcPdus

	ASN.1 ASP Type Definition		
Type Name	RLC_TR_SegOfRlcPdus_REQ		
PCO Type	DSAP		
	To request to transmit a sequence of RLC PDUs using transparent mode: The first PDU is sent in the frame at startingTime, the other PDUs are subsequently sent in the following frames. This primitive can be used e.g. to send fully coded RLC PDUs of critical messages at the beginning of a repetition period. Each sequence of RLC PDUs is sent just once i.e. not repeated at the beginning of the next repetition period. Therefore the sequence may also contain Access Information. Furthermore the sequence may contain corrupted PDUs.		
	Type Definition		
SEQUENCE {	INTEGER(-163), RoutingInfo, INTEGER(04095), pointing to the first frame of a modification MCCH_RlcPduList		

ASN.1 Type Definition		
Type Name MCCH_RlcPduList		
Comment	Comment Each RLC PDU is completely encoded and consists of RLC UM header and RLC SDU	
Type Definition		
SEQUENCE (SIZE(1maxNumMCCHRIcPdus)) OF BIT STRING		

ASN.1 Type Definition		
Type Name maxNumMCCHRIcPdus		
Comment	Comment Maximum number of RLC PDUs in RLC tests of MCCH	
Type Definition		
INTEGER (64)		

7.3.2.2.35 RLC_UM_DATA

ASN.1 ASP Type Definition			
Type Name	RLC_UM_DATA_REQ		
PCO Type	DSAP		
Comment	To request to transmit DATA using unacknowledged mode.		
	Type Definition		
SEQUENCE {	dL_DCCH_Message DL_DCCH_Message, dL_CCCH_Message DL_CCCH_Message, pCCH_Message PCCH_Message, dL_SHCCH_Message DL_SHCCH_Message, bCCH_FACH_Message BCCH_FACH_Message, bCCH_BCH_Message BCCH_BCH_Message invalid_dL_DCCH_Message Invalid_DL_DCCH_Message},		

ASN.1 ASP Type Definition				
Type N	Type Name RLC_UM_DATA_)	
PCO 1	Гуре	DSAP		
Comn	nent	To indicate to receive	DATA using un	acknowledged mode.
			Type Definition	
uL_CCCH_Mes		nfo Ro yResult In	е	

7.3.2.2.35a RLC_UM_MSCH_Msg (Rel-6 or later)

ASN.1 ASP Type Definition			
Type Name	RLC_UM_MSCH_Msg_REQ		
PCO Type	DSAP		
Comment	To request to transmit MSCH_MessageList using unacknowledged mode. The ASP is applied to the RLC entity configured for the logical channel MSCH.		
	Type Definition		
SEQUENCE {	<pre>INTEGER(-163), RoutingInfo, iguration</pre>		

ASN.1 Type Definition		
MSCH_REPconfiguration		
MSCH_REPconfiguration describes how the scheduled data to be transmitted.		
If MSCH is configured MSCH_REPconfiguration specifies when series of MSCH scheduling repetitions start and how long the scheduling period is.		
The scheduledSFN fulfils:		
scheduledSFN = ((SFNss / MSCH_REP + 1) * MSCH_REP + MSCH_OFF + (SCTO / 10ms)) mod 4096,		
where SFNss is the value of currentSFN provided by SS via CPHY_SFN_CNF. The SS shall start sending the 1 st SCHEDULING INFORMATION message on the frame indicated by scheduledSFN and successively send the remaining MSCH messages in the list on the 1 st TTI of every mSCH_REP.		
If MSCH is not configured the scheduledSFN fulfils:		
scheduledSFN = (SFNss + (SCTO / 10ms)) mod 4096, mSCH_REP is omitted.		
Type Definition		
INTEGER (04095),		
ENUMERATED { sp32(0), sp64(1), sp128(2), sp256(3), sp512(4),		

ASN.1 Type Definition		
Type Name	MSCH_MessageList	
	Multiple MSCH messages can be submitted to the SS. Every scheduling period a new message in the sequence is transmitted according to the appearing order in the sequence.	
Type Definition		
SEQUENCE (SIZE(1 m	axNumMSCHMsgs))OF SS_MSCH_Message	

ASN.1 Type Definition		
Type Name	SS_MSCH_Message	
Comment	noSend of SS_MSCH_Message is applied to the scheduling period when no	
	MBMS service data are sent on all MTCH.	
Type Definition		
CHOICE {		
mSCH_Message	MSCH_MessageType,	
noSend	NULL}	

ASN.1 Type Definition		
Type Name	maxNumMSCHMsgs	
Comment	Covering a sufficiently long duration of multiple MSCH scheduling periods for test	
Type Definition		
INTEGER (64)		

7.3.2.2.36 RLC_TR_MACesDATA_IND (Rel-6 or later)

ASN.1 ASP Type Definition		
Type Name	RLC_TR_MACesDATA_IND	
PCO Type DSAP		
Comment	This ASP is used for MACes delivering data in MAC_es testing. The IE cellId = -1, The routingInfo is RB identity, corresponding to RLC in TM, (tsc_RB_DTCH_E_DCH_MAC0(-20), tsc_RB_DTCH_E_DCH_MAC1(-21), or tsc_RB_DTCH_E_DCH_MAC2(-22)). The cfn and subframe indicate the CFN and sub-frame number on which the mACesSDUs (RLC PDUs) were received. The ddi, tsn and n are the reported values in the header of each MAC-es PDU that carries the mACesSDUs. If SI is received together with other MACes PDUs in a MAC-e PDU but without a special DDI associated, the SS shall split SI from MACes data and the latter ones are delivered with the ASP.	
	Type Definition	
SEQUENCE {	<pre>INTEGER (0255), INTEGER (04 7), Value 7 applied when TTI=10ms ENUMERATED {happy(0), unhappy(1)}, INTEGER (062), INTEGER (063), INTEGER (063),</pre>	

ASN.1 Type Definition		
Type Name	MACesSDU_List	
Comment		
Type Definition		
SEQUENCE (SIZE (163)) OF MACesSDU		

	ASN.1 Type Definition			
	Type Name	MAC	CesSDU	
	Comment			
	Type Definition			
BIT	STRING	RLC P	DU in TM	

7.3.2.3 Specific ASP and IE definitions for 1.28 Mcps TDD (Rel-4 or later)

The ASP definitions in 7.3.2.2 are applied to 1.28 Mcps TDD with the exceptions.

- 1. The ASP definition CPHY_AICH_AckModeSet is not applied.
- 2. Specifici IE definitions in this clause replace the definitions in clause 7.3.2.2.

7.3.2.3.1 Specific ASP definitions

ASN.1 ASP Type Definition			
Type Name	CPHY_Cell_Config_RI	EQ	
PCO Type	CSAP		
Comment	Applicable Rel-4 or late	er	
	To request to setup the	e cell parameter.	
	The unit of tcell is chip	; the unit of sfnOffset is frame number; the prima	ary
	scambling code number	er of the cell is 16*primaryScramblingCode_SS;	the unit of
	dLTxAttenuationLevel	is dB.	
	Ту	pe Definition	
SEQUENCE {			
cellId		INTEGER (063),	
sfnOffset		INTEGER (0 4095),	
frequencyInfo		FrequencyInfo,	
cellTxPowerLevel		CellTxPowerLevel,	
dLTxAttenuationL		INTEGER(030),	
cellParametersID		CellParametersID,	
$ timeSlotConfigurationList_LCR$		TimeSlotConfigurationList_LCR,	
dwPCHInfo		DwPCHInfo,	
transmissionDive	rsityApplied	<pre>ENUMERATED {NotApplied(0),Applied(1)}</pre>	OPTIONAL
}			

ASN.1 ASP Type Definition			
Type Name	CPHY_HS_SICH_AckNack_CNF		
PCO Type	CSAP		
Comment	Comment Applicable Rel-5 or later		
	To Confirm CPHY HS SICH AckNack REQ		
Type Definition			
SEQUENCE {			
cellId INT	EGER(063)		
[}			

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_SICH_AckNack_REQ	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	To request for Start or Stop of reporting Ack/Nack received on the SICH for the	
	HARQ process hARQProcessId.	
	At the SS initialization reporting of Ack/Nack is in "STOP" state	
Type Definition		
SEQUENCE {		
cellId	INTEGER(063),	
ratType	RatType,	
ackNackReportReq		
hARQProcessId	INTEGER(07)	
}		

ASN.1 ASP Type Definition				
Type Name	Type Name CPHY_HS_SICH_AckNack_IND			
PCO Type	PCO Type CSAP			
Comment	Comment Applicable Rel-5 or later			
	SS reportes the HARQ-ACK information received on HS_DPCCH,			
	each received Ack/Nack generates a CPHY_HS_DPCCH_AckNack_IND			
	Type Definition			
SEQUENCE	SEQUENCE			
[{				
cellId	INTEGER(063),			
ratType	RatType,			
hARQ_ACKInfo	$ENUMERATED \{ack(0), nack(1)\},$			
hARQProcessId	INTEGER(07)			
}				

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_SICH_CQI_CNF	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later.	
	To Confirm CPHY_HS_SICH_CQI_REQ	
Type Definition		
SEQUENCE {		
cellId IN	TEGER (063)	
}		

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_SICH_CQI_REQ	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later. To enable the SS to start reporting N times of the CQI value received on the HS-SICH. At the SS initialization reporting of CQI values is disabled	
Type Definition		
SEQUENCE { cellId ratType cQIReport }	<pre>INTEGER(063), RatType, ENUMERATED {startRep (0),stopRep (1) }</pre>	

ASN.1 ASP Type Definition		
Type Name	CPHY_HS_SICH_CQI_IND	
PCO Type	CSAP	
Comment	Applicable Rel-5 or later.	
	SS generates the indication when the CQI information is received on HS_SICH	
	after invocation of ASP CPHY_HS_SICH_CQI_REQ.	
	This ASP is used for verifying whether the UE has configured the HS-DSCH and	
	starts reception of HS-DSCH. (TS 25.331 cl.8.6.6.34)	
Type Definition		
SEQUENCE {		
cellId	INTEGER(063),	
ratType	RatType,	
rMS	ENUMERATED {qPSK (0),16QAM (1) },	
rTB	INTEGER(063)	
}		

Type Name	CMAC_MAChs_TFRCcon	figure_REQ
PCO Type	CSAP	
Comment	Applicable Rel-5 or later	
	To configure the TFRC sel	ection in the MAC-hs entity
	If explicitlyConfigured is se	elected in tfrcConfigMode, the SS shall use all the
	parameter values specified	d to configure a correct transport format and radio
	resources.	
	If sS_Configured is selected	ed, the parameter value range is specified. SS shall
		able values for the parameters'modulationScheme',
		OfChannelisationCodes ', tbSizeIndexOnHS_SCCH',
		ns_PDSCH_TxPower' according to UE's capability
	category and CQI informat	ion reported by the UE.
	MaxnoofDLtsLCR=6	
	Туре	Definition
SEQUENCE {	T177777777 (1	
cellId tfrcConfiqMode	<pre>INTEGER(-163), CHOICE {</pre>	
explicitlyCo		QUENCE {
	onScheme	ModulationScheme,
noOfTime		INTEGER (06),
	esPerTimeslot	INTEGER (016),
	dexOnHS_SCCH .cyVersion	INTEGER (063), INTEGER (07),
	TxPower	DL TxPower default offset related
		to p-PCCPCH
sS_Configure	d SEQUENCE {	-
numofTim	oglota	INTEGER (06),
	esPerTimeslot	INTEGER (016),
	SCH TxPower	DL TxPower default offset related
_	_	to p-PCCPCH
	}	
}		
}		

7.3.2.3.2 Specific IE definitions

```
ASN.1 Type Definition
     Type Name
                      CphyRlModifyReq
                      Applicable Rel-4 or later for LCR TDD
     Comment
                                        Type Definition
SEQUENCE
        activationTime
                                          SS_ActivationTime,
        physicalChannelInfo
                                          CHOICE {
                 secondaryCCPCHInfo
                                              SecondaryCCPCHInfo,
                pRACHInfo
                                              PRACHInfo,
                                              DPCHInfo,
DPCHInfo_r5,
                 dPCHInfo
                 dPCHInfo_r5
                 hS DPSCHInfo
                                              HS DPSCHInfo
                                                  },
BOOLEAN
        trchConfigToFollow
                                                               DEFAULT TRUE
```

	ASN.1 Type Definition
Type Name	CphyRlSetupReq
Comment	Applicable Rel-4 or later for LCR TDD
	To request to setup the Radio Link for LCR TDD
	Type Definition
SEQUENCE {	
physicalChannelI	nfo CHOICE {
primaryCCPCH:	Info PrimaryCCPCHInfo,
secondaryCCP	CHInfo SecondaryCCPCHInfo,
pRACHInfo	PRACHInfo,
pICHInfo	PICHInfo,
dPCHInfo	DPCHInfo,
pDSCHInfo	PDSCHInfo,
pUSCHInfo	PUSCHInfo,
dPCHInfo r5	DPCHInfo r5,
hS DPSCHInfo	HS DPSCHInfo
_	_ }
}	·

	ASN.1 Type Definition
Type Name	PrimaryCCPCHInfo
Comment	Applicable Rel-4 or later for LCR TDD
	Type Definition
SEQUENCE { sctd_Indicator tstd_Indicator commonTimeSlotIn dL_TxPower_PCCPC }	

	ASN.1 Type Definition		
Type Name	SecondaryCCPCHInfo		
Comment	Applicable Rel-4 or later for LCR TDD The range for powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0-6 dB, 0.25 dB per step.		
	Type Definition		
SEQUENCE { tstd_Indicator sctd_Indicator dl_TxPower commonTimeSlotIn channelisationCo individualTimesl powerOffsetOfTFC }	de SCCPCH_ChannelisationCodeList, otInfo IndividualTimeslotInfo_LCR_r4,		

ASN.1 Type Definition		
Type Name	PRACHInfo	
Comment	Applicable Rel-4	or later for LCR TDD
Type Definition		
DEQUENCE { pRACH_RACH_Info_LCR_r4		

		ASN.1 Type Definition	
Type Name	DL_DPCHInfo		
Comment	Applicable Rel-4 or later for LCR TDD The range for powerOffsetOfTPC_PO2 and powerOffsetOfTFCI_PO1 and powerOffsetOfPILOT_PO3 is 0 dB to 6 dB, 0,25 dB per step.		
		Type Definition	
SEQUENCE {			
dl_CommonInforma	tion	DL_CommonInformation_r4,	
dl DPCH InfoPerRL		DL_DPCH_InfoPerRL_r4,	
powerOffsetOfTFCI PO1		INTEGER (024),	
powerOffsetOfTPC PO2		INTEGER (024),	
dl TxPower		DL_TxPower,	
dl TxPowerMax		DL TxPower,	
dl TxPowerMin		DL_TxPower,	
dL TimeslotISCPI	nfoLCR	TimeslotListWithISCP	
}			

		ASN.1 Type Definition	
Type Name	DL_DPCHInfo_r	5	
Comment	Applicable Rel-4	Applicable Rel-4 or later for LCR TDD	
	The range for po	werOffsetOfTPC_PO2 and powerOffsetOfTFCI_PO1 and	
	powerOffsetOfPI	LOT_PO3 is 0 dB to 6 dB, 0,25 dB per step.	
	Type Definition		
SEQUENCE {			
dl_CommonInforma	tion	DL_CommonInformation_r5,	
dl_DPCH_InfoPerRL		DL_DPCH_InfoPerRL_r5,	
powerOffsetOfTFCI_PO1		INTEGER (024),	
powerOffsetOfTPC PO2		INTEGER (024),	
dl_TxPower		DL_TxPower,	
dl_TxPowerMax		DL_TxPower,	
dl TxPowerMin		DL_TxPower,	
$\mathtt{dL_TimeslotISCPInfoLCR}$		TimeslotListWithISCP	
}			

	ASN.1 Type Definition
Type Name	PDSCHInfo
Comment	Applicable Rel-4 or later for LCR TDD
	Type Definition
SEQUENCE { pdsch_Identity pdsch_Info pdsch_PowerContr dl_TxPower	PDSCH_Identity, PDSCH_Info_r4, rolInfo PDSCH_PowerControlInfo OPTIONAL, DL_TxPower

		ASN.1 Type Definition
Type Name	HS_PDSCHInfo	
Comment	Applicable later than r4 When CHY_RL_Setup_REQ is called with CHOICE of hS_PDSCHInfo HS_PDSCH and HS-SCCH shall be configured in SS. The following HS-DSCH related parameters are passed to the SS implicitly by HSDSCH_physical_layer_category: - Maximum number of HS-DSCH codes can be received by UE Minimum inter-TTI interval Maximum number of bits of an HS-DSCH transport block within an HS-DSCH TTI Total number of soft channel bits'. HSDSCH_physical_Layer_category is also used for interpretation of the meaning of CQI value.	
		Type Definition
SEQUENCE { hSDSCHPhysicalLayerCategory h_RNTI dlHSPDSCHInformation hs_SCCH_TxPower }		HSDSCH_physical_layer_category, H_RNTI, DL_HSPDSCH_Information, DL_TxPower offset related to p-PCCPCH (25.433, 9.2.2.18I)

	ASN.1 Type Definition		
Type Name	HS_DSCHMACdFlows		
	Applicable later than r4 Within the ACK/NACK repetition period indicated by ackNackRepetitionFactor the SS shall not transmit MAC-hs PDU's on HS-PDSCH. Type Definition		
SEQUENCE { harqInfo addOrReconfMACdF }	HARQ_Info OPTIONAL, Flow SS_AddOrReconfMAC_dFlow OPTIONAL,		

7.3.3 TTCN primitives

7.3.3.1 UTRAN TTCN primitives

Table 21 shows the primitives that are used for RLC, BMC ,RB and PDCP tests, these primitives are defined in TTCN tabular form.

Table 21: Primitives for RLC, BMC and RB tests

Primitive	Parameters	Use
RLC_TR_TestDataReq	Cell identity	The ASP is used to request the transmission of
	INTEGER (-3132)	unstructured data using transparent mode in the
	Data (Meta type PDU)	downlink direction
RLC_TR_TestDataInd	Cell identity	The ASP is used to indicate the reception of
	INTEGER (-3132)	unstructured data using transparent mode in the
	Data (Meta type PDU)	uplink direction
RLC_UM_TestDataReq	Cell identity	The ASP is used to request the transmission of
	INTEGER (-3132)	unstructured data using unacknowledged mode in the
	Data (Meta type PDU)	downlink direction
RLC_UM_TestDataInd	Cell identity	The ASP is used to indicate the reception of
	INTEGER (-3132)	unstructured data using unacknowledged mode in the
	Data (Meta type PDU)	uplink direction
RLC_AM_TestDataReq	Cell identity	The ASP is used to request the transmission of
	INTEGER (-3132)	unstructured data using acknowledged mode in the
	Data (Meta type PDU)	downlink direction
RLC_AM_TestDataInd	Cell identity	The ASP is used to indicate the reception of
	INTEGER (-3132)	unstructured data using acknowledged mode in the
	Data (Meta type PDU)	uplink direction
BMC_DataReq	Cell identity,	The ASP is used to request the transmission of
	INTEGER (-3132),	unstructured BMC data or scheduling message, using
	Data (Meta type PDU)	unacknowledged mode in the downlink direction.
BMC_DataCnf	CellId,	The ASP is used to confirm the reception of BMC
	INTEGER (-3132)	CBS data
RLC_HandoverReq	CellId	The ASP is used to request the transmission of the
	INTEGER (-3132)	HandoverFromUTRANCommand_GSM message
	Data (Meta type PDU)	using acknowledged operation (AM).
		The Meta PDU in turn consists of 2 components.
		The ASN.1 PER encoded
		HandoverFromUTRANCommand, without
		any 1 bit to 7 bits of padding.
		The GSM Handover command.
		The SS shall take care of inserting the MAC and RLC
		sequence number of Integrity check info, as in the
		case of other RRC DL PDU's

The TTCN tabular format applies to the primitive definitions.

7.3.4 GERAN PCO and ASP definitions

7.3.4.1 PCO Type definitions

7.3.4.1.1 PCO type for data transmission and reception in GERAN

Table 22: Declaration of the G_DSAP PCO Type

	PCO Type Definition
PCO Type	G_DSAP
Role	LT
Comment	DATA transmission and reception

7.3.4.1.2 PCO type for configuration and control in GERAN

Table 23: Declaration of the G_CSAP PCO Type

PCO Type Definition		
PCO Type	G_CSAP	
Role	LT	
Comment	Transmission and reception of control primitives	

7.3.4.2 PCO definitions

7.3.4.2.1 PCOs for data transmission and reception in GERAN

7.3.4.2.1.1 PCO for data transmission and reception through GERAN L2

Table 24: Declaration of G_L2 PCO

PCO Type Definition		
PCO Name	G_L2	
PCO Type	G_DSAP	
Role	LT	
Comment	Control and observation point of GERAN L3 messages and user data	

7.3.4.2.1.2 PCO for data transmission and reception through GPRS RLC

Table 25: Declaration of G_RLC PCO

PCO Type Definition		
PCO Name	G_RLC	
PCO Type	G_DSAP	
Role	LT	
Comment	Control and observation point of GPRS GRR signalling messages	

7.3.4.2.1.3 PCO for data transmission and reception through GPRS LLC

Table 26: Declaration of LLC PCO

PCO Type Definition		
PCO Name	G_LLC	
PCO Type	G_DSAP	
Role	LT	
Comment	Control and observation point of GPRS GMM signalling messages	

7.3.4.2.1.4 PCO for data transmission and reception through GPRS SNDCP

Table 27: Declaration of SNDCP PCO

PCO Type Definition			
PCO Name	G_SNDCP		
PCO Type	G_DSAP		
Role	LT		
Comment	Control and observation point of GPRS user packet data		

7.3.4.2.2 PCOs for control primitives transmission and reception in GERAN

7.3.4.2.2.1 PCO for GERAN L1control primitives transmission and reception

Table 28: Declaration of G_CL1 PCO

PCO Type Definition		
PCO Name	G_CL1	
PCO Type	G_CSAP	
Role	LT	
Comment	Control GERAN Physical Layer (L1)	

7.3.4.2.2.2 PCO for GERAN L2 control primitives transmission and reception

Table 29: Declaration of G_CL2 PCO

PCO Type Definition			
PCO Name	G_CL2		
PCO Type	G_CSAP		
Role	LT		
Comment	Control GERAN L2		

7.3.4.2.2.3 PCO for GPRS RLC control primitives transmission and reception

Table 30: Declaration of G_CRLC PCO

PCO Type Definition		
PCO Name	G_CRLC	
PCO Type	G_CSAP	
Role	LT	
Comment	Control GPRS RLC/MAC layer	

7.3.4.2.2.4 PCO for GPRS LLC control primitives transmission and reception

Table 31: Declaration of G_CLLC PCO

PCO Type Definition		
PCO Name	G_CLLC	
PCO Type	G_CSAP	
Role	LT	
Comment	Control GPRS LLC layer	

7.3.4.2.2.5 PCO for GPRS SNDCP control primitives transmission and reception

Table 32: Declaration of G_CSNDCP PCO

PCO Type Definition			
PCO Name	G_CSNDCP		
PCO Type	G_CSAP		
Role	LT		
Comment	Control GPRS SNDCP layer		

7.3.4.3 GERAN ASP Definitions

7.3.4.3.1 ASPs for data transmission and reception in GERAN

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.		
Paran	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	msg		Signalling message or user data to be sent
Detailed Co	Detailed Comments Parameter rfn is only used in the test cases that require L3 message to be sent on specified frame number.		e test cases that require L3 message to be sent on

ASP Name G L2	G L2 DATA IND			
	G DSAP			
	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.			
Paramete	er 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 carrying the message	
msg		PDU	Signalling message or user data received	
Detailed Comm	nents			

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	
physicalChId		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
msg		PDU	this field is present only when the establish mode is CoRes (collision resolution)
Detailed Comments see 3GPP TS 44.006 [42] clauses 7.1.1 and 7.1.3			

ASP Name	G_L2_UNITDATA_RE	Q	
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
cellld		CellId	
sAPI		SAPI	0 or 3
physicalChld		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 Co	Detailed Comments Parameter fn is only used in the test cases that require specific L3 message to be sent on specified frame number.		

ASP Name G_L2_UNITDA	G_L2_UNITDATA_IND		
PCO Type G_DSAP	G_DSAP		
	ed to receive a L3 signalling message on the UE/MS in unacknowledged mode.	the signalling channels or user data on the traffic	
Parameter Name	Parameter Type	Comments	
cellId	CellId		
sAPI	SAPI	0 or 3	
physicalChld	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 carrying the message	
msg	PDU	Signalling message or user data received	
Detailed Comments			

ASP Name G_L2_ACCESS_IND			
PCO Type G_DSAP	PCO Type G_DSAP		
Comments The ASP is used	d to receive a random access or han	dover access burst on the specified channel.	
Parameter Name	Parameter Type	Comments	
cellld	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
cellld		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 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 regression" the SS send the paging message in all paging subchannels.		

ASP Name	G_L2_PagingGPRS_REQ		
	G_DSAP 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.		
	neter Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0
physicalChld		PhysicalChId	Channel identifier of the right CCCH_GROUP
<pre>g_LogicChType</pre>)	G_LogicChType	PCH
pagingGroup		PAGING_GROUP	
pagingMode		PagingMode	0-normal paging; 1-extended paging; 2-paging reorganization.
splitPGcycleCo	de	INTEGER	0 No Split Paging, 132 Split Paging
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	PhysicalChld
Type Definition	INTEGER(031)
Type Encoding	
Comments	Physical channel identifier in GERAN

Type Name	G_LogicChType
Type Definition	INTEĞER
Type Encoding	
Comments	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; 12-FACCH/H; 13-SACCH/TH; 14-PBCCH; 15-PRACH; 16-PPCH; 17-PAGCH; 18-PDTCH/F; 20-PTCCH/F; 21-E-TCH/F; 21-E-TCH/F; 22-E-IACCH//F; 23-E-FACCH//F; 24-SACCH/MD

Type Name	SubChannelNumber
Type Definition	INTEGER
Type Encoding	
	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 [31], 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
Liement Name	i ype Deminion	Encoding	Comments
t1_	BITSTRING[5]		(FN div 1326) mod 32
t3	BITSTRING[6]		FN mod 51
t2	BITSTRING[5]		FN mod 26
	see 3GPP TS 04.18 or 3GPP TS 44.018 [43], clause 10.5.2.38.		
Detailed Comments	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 tin	ne.	

ASP Name	G_L2_Releas	se_CNF	
PCO Type	G_DSAP		
			ple frame operation release was successful. This means ponse to L2 DISC command.
Parameter	Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0 or 3
physicalChld		PhysicalChId	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 Con	nments		

ASP Name	G_L2_Release_REQ		
PCO Type	G_DSAP		
Comments	This ASP rec	uests L2 to send Layer 2 DISC o	ommand on the indicated SAPI.
Parameter	Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0 or 3
physicalChld		PhysicalChId	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	mments		

ASP Name	G_L2_Release_IND		
PCO Type	G_DSAP		
	The ASP is used to receive an indication of the termination of an established multiple		
Commonto	or an indicati	on of an unsuccessful establishmen	t attempt.
Parameter	Name	Parameter Type	Comments
cellId		CellId	
sAPI		SAPI	0
physicalChld		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).
releaseMode		BITSTRING[1]	0 = normal release; 1 = local end release
outstanding_Indica	ator	BOOLEAN	whether or not there are outstanding acknowledgements or unsolved G_L2_DATA_REQ primitives.
Detailed Cor	nments		

ASP Name	G_L2_SYSINFO_REQ		
PCO Type	G_DSAP		
Comments	The ASP is used to send system information messages to the lower layer emulator.		
Parame	eter Name	Parameter Type	Comments
cellld		CellId	
sAPI		SAPI	0
physicalChld		PhysicalChId	
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.
BCCHExt		B1	'0' indicates message sent on BCCH Norm, '1' indicates message sent on BCCH Ext. Only valid for SI 2quater, 7, 8, 13, 15, 16, 17. Default value '0'
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 Com	periodica 3GPP TS	lly according to the rule	ore the SYSTEM INFORMATION's, and transmit them s specified in clause 6.3.1.3 of 3GPP TS 05.02 or shall override the same type system information message r emulator.

Type Name	SysInfoType	
Type Definition	INTEGER	
Type Encoding		
Comments	25SYSTEM INFORMATION TYPE 1 26SYSTEM INFORMATION TYPE 2 2 SYSTEM 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 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 20 67—SYSTEM INFORMATION TYPE 15	

7.3.4.3.1.2 ASPs for data transmission and reception through GERAN RLC

ASP Name G_RLC_PSI_R	EQ		
PCO Type G_DSAP	G_DSAP		
Comments The ASP is use	The ASP is used to send packet system information messages to the lower layer emulator.		
Parameter Name	Parameter Type	Comments	
cellId	CellId		
physicalChld	PhysicalChId		
g_LogicChType	G_LogicChType	PBCCH or PACCH or PCCCH	
packetSysInfoCategory	PSI_Category	PSI1 or high repetition rate or low repetition rate. Type of this field is INTEGER: 0 PSI1; 1high repetition category; 2low repetition category.	
positionInList	PositionInList	Position in the high repetition rate list or the low repetition rate list, for PSI1 this field is not applicable and set to 31. Type of this field is INTEGER, the order of the position is from 0, 1, 0 indicates the first position, 1 the second, and so on.	
msg	PDU	This field contains PACKET SYSTEM INFORMATION message, see 3GPP TS 04.60 or 3GPP TS 44.060 [32] clauses 11.2.18 to 11.2.25 for the message definitions	
Detailed Comments and 3GF syst Mul	transmit them periodically according to the PPTS 05.02 or 3GPPTS 45.00 em information message previous.	tor shall store the PACKET SYSTEM INFORMATION's, ording to the rules specified in clause 6.3.2.4 of 02 [31]. The msg shall override the same type packet ous stored in the lower layer.	

Type Name	PSI_Category
Type Definition	INTEGER
Type Encoding	
Comments	3GPP TS 05.02 or 3GPP TS 45.002 [31] clause 6.3.2.4

Type Name	PositionInList
Type Definition	INTEGER
Type Encoding	
	0 is the first position; 1 is the second, and so on.

ASP Name	G_RLC_Control	Msa REQ	
PCO Type	G DSAP		
Comments		to transmit a RLC/MAC contro	ol message to the UE/MS on the specified channel.
	eter Name	Parameter Type	Comments
cellId		CellId	
physicalChld		PhysicalChId	
g_LogicChType		G_LogicChType	PCCCH or PACCH or PTCCH
tBF_Direction		INTEGER	1-downlink TBF; 0-uplink TBF
tFI		TFI	Temporary flow identity
rRBP		RRBP	Relative reserved block period
s_P_Bit		S_P_Bit	Supplementary/polling bit
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.
pagingGroup		PAGING_GROUP	for message other than PACKET PAGING REQUEST this field shall be omitted
pagingMode		PagingMode	 0 normal paging; 1 extended paging; 3 paging reorganization. this field is valid only for PACKET PAGING REQUEST control message, for message other than PACKET PAGING REQUEST this field shall be omitted
msg		PDU	Down link RLC/MAC control message
Detailed Cor	conti MAC If a F RLC, corre PTC PAC The pagii The Pagi	rolling the response from the Us header shall be filled by the SRLC/MAC control message can /MAC entity shall take the respect "PayloadType" and optional CH is valid for PACKET TIMIN KET PAGING REQUEST. required 52-multiframe occurs ngGroup div (M div 64) = (FN controlled)	n not be fitted into one RLC/MAC control block, the SS consibility of segmentation of the message, and set the I octet1 (and optional octet2). G ADVANCE/POWER CONTROL message if sending when: div 52) mod 64 lock in the 51-multiframe determined above: mod (M div 64)

Type Name	RRBP
Type Definition	BITSTRING[2]
Type Encoding	
Comments	3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 10.4.5

Type Name	S_P_Bit
Type Definition	BITSTRING[1]
Type Encoding	
Comments	0 - RRBP field is not valid; 1 - RRBP field is valid.

ASP Name	G_RLC_ControlMsg_IND			
PCO Type	G_DSAP			
Comments	The ASP is used to receive an uplink RLC/MAC control block sent by the UE/MS on the specified channel.			
Parame	eter Name		Parameter Type	Comments
cellid			CellId	
physicalChld			PhysicalChId	
g_LogicChType			G_LogicChType	PACCH or PDTCH
tBF_Direction			INTEGER	1 - downlink TBF; 0 - uplink TBF
tFI	tFI		TFI	Temporary flow identity
rfn	rfn		RFN	The reduced frame number of the frame carrying the message
msg			PDU	Uplink RLC/MAC control message
Detailed Com	Logical channel type PDTCH is valid for PACKET ENHANCED MEARSUREMENT REPORT message only. The ASP is not used to receive PACKET CHANNEL REQUEST, EGPRS PACKET CHANNEL REQUEST and burst format of PACKET CONTROL ACKNOWLEDGEMEN which are received by G_RLC_ACCESS_IND.			EL REQUEST, EGPRS PACKET

ASP Name	G RLC ACCESS IND		
PCO Type	G DSAP		
Comments	The ASP is used to r	eceive an access burst sent	by the UE/MS on the specified channel.
Parame	eter Name	Parameter Type	Comments
cellId		CellId	
physicalChld		PhysicalChId	
g_LogicChType		G_LogicChType	PRACH or PACCH or PTCCH
rfn		RFN	The reduced frame number of the frame carrying the burst
retryBit		IBITZTRINGTT	For access bursts on PRACH, RACH. For PACCH, this field is no meaning
			8-bit or 11-bit access burst
Detailed Con			PRS PACKET CHANNEL REQUEST and burst IOWLEDGEMENT are access bursts.

7.3.4.3.1.3 ASPs for data transmission and reception through GERAN LLC

ASP Name	G_LLC_UNITDATA_REQ		
PCO Type	G_DSAP		
Comments	The ASP is used to send L3 PDU to the UE/MS in LLC unconfirmed transmission.		
Parar	neter Name	Parameter Type	Comments
ILMEId		LLMEId	
tLLI		TLLI	
sAPI		SAPI	
protectMode		BITSTRING[1]	0 unprotected; 1 protected
cipherMode		BITSTRING[1]	0 -sent without encryption; 1 -sent with encryption
msg		PDU	L3 PDU
3GPP TS After the		S 04.64 or 3GPP TS 44.064 [33] clause 8 ciphering function is started in the SS by the "msg" when cipherMode = '1', and the ode = '0'.	/ G_CLLC_Assign_REQ, the SS shall

Type Name	LLMEId
Type Definition	INTEGER
Type Encoding	
Comments	The identifier of the Logical Link Management Entity in SGSN

ASP Name	G_LLC_UNITDATA_IND			
PCO Type	G_DSAP	G_DSAP		
Comments	The ASP is use	d to recei	ve a L3 PDU from the UE/MS in LLC und	confirmed transmission.
Para	ameter Name Parameter Type Comments			Comments
ILMEId			LLMEId	
tLLI	TLLI		TLLI	
sAPI	SAPI		SAPI	
msg			PDU	L3 PDU
Detailed C	Comments	omments 3GPP TS 04.64 or 3GPP TS 44.064 [33] clause 8.4.2		

ASP Name	G_LLC_XID_RES		
PCO Type	G_DSAP		
Comments	The ASP is used to send	I to the UE/MS the negotiated XID paran	neters agreed by the SS.
Par	ameter Name	Parameter Type	Comments
ILMEId		LLMEId	
tLLI	TLLI		
sAPI	SAPI		
xID_Info XID_Info		XID_Info	the negotiated XID parameters agreed by the SS
Detailed C	Comments		_

Type Name	XID_Info
Type Definition	OCTETSTRING
Type Encoding	
Comments	Exchange Identification Information

ASP Name	G_LLC_XID_IND		
PCO Type	G_DSAP		
Comments	The ASP is used to recei	ve the XID requested by the UE/MS.	
Para	ameter Name	Parameter Type	Comments
ILMEId		LLMEId	
tLLI		TLLI	
sAPI		SAPI	
xID_Info		XID_Info	the XID parameters requested by the UE/MS
Detailed C	Comments		

7.3.4.3.1.4 ASPs for data transmission and reception through GERAN SNDCP

ASP Name	G_SN_DATA_REQ			
PCO Type	G_DSAP			
Comments	The ASP is used to send a valid IP datagram on the specified NSAPI to the UE/MS by acknowledged transmission.			
Paran	Parameter Name Parameter Type Comments			
sNDCPId		SNDCPId		
nSAPI		NSAPI	5 to 15	
n_PDU_Number		OCTETSTRING[1]		
n_PDU	N_PDU Valid IPv4 or IPv6 datagram		Valid IPv4 or IPv6 datagram	
Detailed Co	Detailed Comments Acknowledged transmission mode			

ASP Name	G_SN_DATA_IND				
PCO Type	G_DSAP	G_DSAP			
Comments	The ASP is used to receive an IP datagram on the specified NASPI from the UE/MS in acknowledged transmission mode.				
Par	rameter Name Parameter Type Comments				
sNDCPId		SNDCPId			
nSAPI		NSAPI	5 to 15		
n_PDU	N_PDU IPv4 or IPv6 datagram				
Detailed (Comments Acknowle	dged transmission mode			

ASP Name	G_SN_UNIDATA_REQ				
PCO Type	G_DSAP	G_DSAP			
Comments		The ASP is used to send a valid IP datagram on the specified NSAPI to the UE/MS by unacknowledged transmission.			
Paran	Parameter Name		Parameter Type	Comments	
sNDCPId			SNDCPId		
nSAPI			NSAPI	5 to 15	
n_PDU	_PDU		N_PDU	Valid IPv4 or IPv6 datagram	
Detailed Co	mments Unacknowledged transmission mode				

ASP Name	G_SN_UNITDA	ATA_IND		
PCO Type	G_DSAP			
	The ASP is used to receive an IP datagram on the specified NASPI from the UE/MS in unacknowledged transmission mode.			
Para	ameter Name		Parameter Type	Comments
sNDCPId			SNDCPId	
nSAPI			NSAPI	5 to 15
n_PDU	n_PDU		N_PDU	IPv4 or IPv6 datagram
Detailed C	Comments	Unacknow	vledged transmission mode	

ASP Name	G_SN_XID_REQ			
PCO Type	G_DSAP			
Comments	The ASP is used to send the requested XID parameters to the UE/MS.			
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId		
xID_Info		XID_Info	XID parameters requested	
Detailed Co	mments			

ASP Name	G_SN_XID_IND			
	G_DSAP	G_DSAP		
Comments	The ASP is used to receive the XID parameters requested by the UE/MS.			
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId		
xID_Info		XID_Info	XID parameters requested by the UE/MS	

ASP Name	G_SN_XID_CNF			
PCO Type	G_DSAP	G_DSAP		
Comments	The ASP is used to re	The ASP is used to receive the negotiated XID parameters agreed by the UE/MS.		
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId		
xID_Info			The negotiated XID parameters agreed by the UE/MS	
Detailed Co	mments			

ASP Name	G_SN_XID_RES				
PCO Type	G_DSAP				
Comments	The ASP sends to the	The ASP sends to the UE/MS the negotiated XID parameters agreed by the SS.			
Para	ameter Name	Parameter Type	Comments		
sNDCPId		SNDCPId			
xID_Info		XID_Info	The negotiated XID parameters agreed by the SS		
Detailed C	Comments				

Type Name	SNDCPId
Type Definition	INTEGER
Type Encoding	
Comments	The identifier of the SNDCP entity in SGSN

7.3.4.3.1.5 ASPs for data transmission and reception through GERAN DTM

ASP Name	G_L2_GTTP_REQ		
PCO Type	G_DSAP		
Comments	The ASP is used for D	TM to send an LLC sig	nalling message on the DCCH in acknowledged mode.
Paran	neter Name	Parameter Type	Comments
cellId		CellId	
SAPI		SAPI	
physicalChld		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.
protectMode		BITSTRING[1]	0 unprotected; 1 protected
cipherMode		BITSTRING[1]	0 - sent without encryption; 1 - sent with encryption
skipIndicator		B4	GTTP header, unciphered
GTTPProtocolDi	scriminator	B4	GTTP header, unciphered
msgType		B8	GTTP header, unciphered
TLLI		TLLI	GTTP header, unciphered
gmmSmPDULen	ıgth	Length	GTTP header, unciphered
gmmSmPDU		PDU	GMM or SM PDU - ciphered
Detailed Co	G_CL1_C G_CL1_C "LLCPDL whole ou	CipheringControl_REQ CreateBasicPhyCh_RE U', using the algorithm of tgoing message using	e SS by G_CLLC_Assign_REQ, and also by either, G_CL1_CipherModeModify_REQ, or EQ. When cipherMode = '1' the SS shall encrypt the specified in px_GPRS_CipherAlg, and then encrypt the the algorithm specified in px_GSM_CipherAlg. The SS at all if cipherMode = '0'.

ASP Name G L2 GTTP IND			
PCO Type G DSAP			
	The ASP is used for DTM to receive an LLC signalling message on DCCH acknowledged mode.		
Parameter Name	Parameter Type	Comments	
cellid	CellId		
SAPI	SAPI		
physicalChld	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 carrying the message	
TLLI	TLLI		
gmmSmPDU	PDU	Deciphered GMM or SM signalling message received	
Detailed Comments If cipheri	ng is used, the SS will take c	are to ensure the 'LLC PDU' is deciphered	

7.3.4.3.2 ASPs for control primitive transmission and reception in GERAN

7.3.4.3.2.1 ASPs for configuration and control of GERAN L1

ASP Name	G_CL1_CreateCell_REQ			
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP is u	sed to create a cell in GERAN		
Param	eter Name	Parameter Type	Comments	
cellld		CellId		
baseld		BITSTRING[6]	base transceiver station identity code = NCC+BCC. see 3GPP TS 23.003 [6]	
timingAdvance		BITSTRING[8]	The SS sets the timing of uplink direction in advance of downlink direction timing by this value.	
Detailed Co	mments	•	<u> </u>	

ASP Name	G_CL1_CreateCell_Cl	G_CL1_CreateCell_CNF			
PCO Type	G_CSAP				
Comments	The ASP is used to get the confirmation of a G_CL1_CreateCell_REQ				
Paran	neter Name	Parameter Type	Comments		
cellId		CellId	The cell created		
Detailed Co					

ASP Name	G_CL1_DeleteCel	I_REQ	
PCO Type	G_CSAP		
Comments	The ASP is used t	o delete a cell in GERAN	
Parameter Name			
Paran	neter Name	Parameter Type	Comments
Paran cellid	neter Name	Parameter Type Cellid	Comments The cell to be deleted

ASP Name	G_CL1_DeleteC	ell_CNF		
PCO Type	G_CSAP			
Comments	The ASP is used to get the confirmation of a G_CL1_DeleteCell_REQ			
			_	
Paran	neter Name	Par	ameter Type	Comments
Paran cellid	neter Name	CellId	ameter Type	The cell deleted

ASP Name G_CL1_CreateBasicPhyCh_REQ			
PCO Type	G_CSAP	•	
Comments	The ASP is	used to create a basic physic	al channel in GERAN
Parameter	Name	Parameter Type	Comments
cellId		CellId	The cell which the channel to be created belongs to
physicalChld		PhysicalChId	identifier of the physical channel in the SS.
channelCombinat	ion	ChannelCombination	Logical channels combined onto the basic physical channel.
frqInfo		FrqInfo	Parameters for Description of the physical channel in frequency domain
timeSlot		TN	The timeslot number of the physical channel
tsc		TSC	Training sequence code. For common control and broadcast channels the value of tsc must be equal to BCC (base station colour code)
channelSpecificIn	fo	ChannelSpecificInfo	Specific parameters related to individual channel
txPower		TX_Power	The transmission power level in dBµVemf()
bandIndicator		BITSTRING[1]	Parameter for DCS or PCS frequency band selection. A value 0 for frqInfo.arfcn interpreted as DCS1800. A value 1 for frqInfo.arfcn interpreted as PCS1900. If omitted, the value in frqInfo.arfcn interpreted as DCS1800.
Detailed Comments		4 FCCH + SCH + BCCH +	CCH/TF (0,1) + SACCH/TH(0,1) (0,1) + SACCH/TH(0,1) + TCH/H(1,1) CCCH CCCH + SDCCH/4(03) + SACCH/C4(03) H/C8(0 7) CCH/M CH/F+PACCH/F+PTCCH/F CCH/F+PTCCH/F TCCH/F - E-FACCH/F + SACCH/TF - E-FACCH/F + SACCH/M - SACCH/M

ASP Name	G_CL1_CreateBasicPhyCh_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is used to ge	The ASP is used to get the confirmation of a G_CL1_CreateBasicPhyCh_REQ			
Paran	neter Name	Parameter Type	Comments		
cellld		CellId	The cell which the created channel belongs to		
physicalChId		PhysicalChId	The physical channel created.		
Detailed Co	mments				

Type Name	FrqInfo		
Encoding Variation			
Comments		tion of basic physica	al channel in frequency domain.
Element Name	Type Definition	Field Encoding	Comments
h	BITSTRING[1]		h=1:hopping channel h=0: non-hopping channel
spr	BITSTRING [3]		'000'B
spr1	BITSTRING [2]		'00'B if h = 0, otherwise OMIT
maio	BITSTRING [6]		mobile allocation index offset if h = 1, otherwise OMIT
hsn	BITSTRING [6]		hopping sequence number if h = 1, otherwise OMIT
arfcn	BITSTRING [10]		absolute RF channel number if h = 0, otherwise OMIT
hoppingFreqList	FrequencyList		hopping frequency list if h = 1, otherwise OMIT. The definition see 3GPP TS 44.018 [43] or 3GPP TS 04.18, clause 10.5.2.13
Detailed Comments			

Type Name	ChannelSpecificInfo			
Encoding Variation				
Comments	Parameters for individual channel			
Element Name	Type Definition	Field Encoding	Comments	
dedCH_Info	DedCH_Info		Parameters for dedicated channel. Valid for combination:1, 2, 3, 5, 7, 8, 9, 10 This field is omitted if DedCH_Info does not apply for the channelCombination	
cCCH_Info	CCCH_Info		Parameters for common control channels: PCH, SCH, etc. Valid for combination: 4, 5, 6 This field is omitted if CCCH_Info does not apply for the channelCombination	
pCCCH_Info	PCCCH_Info		Parameters for packet common control channels: PCCCH, PPCH, Valid for combination: 11, 12 This field is omitted if PCCCH_Info does not apply for the channelCombination	
pBCCH_Info	PBCCH_Info		Parameters for packet broadcast channels: PBCCH Valid for combination: 11 This field is omitted if PBCCH_Info does not apply for the channelCombination	
Detailed Comments		<u> </u>		

Type Name	DedCH_Info		
Encoding Variation			
Comments	Parameters for dedicated channel		
Element Name	Type Definition	Field Encoding	Comments
chMod	ChMode		Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.6
cipherMode	CipherModeSetting		Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.9
cipherKey	BITSTRING[64]		
powerLevel	BITSTRING[5]		Initial MS uplink transmission power level. This value is used in the L1 header of SACCH.
timingAdvance	BITSTRING[8]		Initial timing advance. This value is used in the L1 header of SACCH. This field shall be set to the same value as in timingAdvance of G_CL1_CreateCell_REQ.
Detailed Comments	In addition to ciphering algorithm the cipherMode specifies the initial ciphering mode of the physical channel in both transmission and receiving direction by startingCiph bit. During ciphering mode setting procedure the ciphering mode of receiving direction can be changed by G_CL1_CipheringControl_REQ.		

Type Name	CCCH_Info				
Encoding Variation					
Comments	Parameters for co	Parameters for common control channels			
Element Name	Type Definition	Field Encoding	Comments		
bS_PA_MFRMS	BITSTRING[3]		the number of 51-multiframes between transmissions of paging messages. Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.11		
bS_AG_BLKS_RES	BITSTRING[3]		the number of blocks on each common control channel reserved for access grant messages. Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.11		
Detailed Comments					

Type Name	PCCCH_Info			
Encoding Variation				
Comments	Parameters for packet co	ommon control channe	els	
Element Name	Type Definition	Field Encoding	Comments	
bS PBCCH BLKS	BITSTRING[2]		3GPP TS 04.60 or 3GPP TS 44.060 [32]	
DS_PBCCH_BLKS	BITSTRING[2]		clause 12.25	
bS PAG BLKS RES	BITSTRING[4]		3GPP TS 04.60 or 3GPP TS 44.060 [32]	
DS_FAG_BERS_RES	BITSTKING[4]		clause 12.25	
LE DDACH DIVE	DITETDINICIAI		3GPP TS 04.60 or 3GPP TS 44.060 [32]	
bS_PRACH_BLKS	BITSTRING[4]		clause 12.25	
Detailed Comments				

Type Name	PBCCH_Info			
Encoding Variation				
Comments	Parameters for packet broadcast channel			
Element Name	Type Definition	Field Encoding	Comments	
pSI1_REPEAT_PERIOD	BITSTRING[4]		The repeat period of packet system information Type 1. See 3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 11.2.18	
pSI_COUNT_HR	BITSTRING[4]		The number of PSI message instances sent with high repetition rate. See 3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 11.2.18	
pSI_COUNT_LR	BITSTRING[6]		The number of PSI message instances sent with low repetition rate. See 3GPP TS 04.60 or 3GPP TS 44.060 [32] clause 11.2.18	
Detailed Comments				

ASP Name	G_CL1_CreateMultiSlotConfig_REQ			
PCO Type	G_CSAP			
Comments		The ASP is used to create a multi-slot configuration in GERAN and should be preceded with		
	G_CL1_Cr		Q in order to create a basic physical channel with single timeslot.	
Parameter	ter Name Parameter Type Comments			
cellId	CellId		The cell which the configuration to be created belongs to	
mainChannel PhysicalChld			identifier of the main physical channel of this multi-slot configuration.	
multiSlotAllocation MultiSlotAllocation		MultiSlotAllocation	The timeslot allocation of the configuration	
This		This ASP is to add a	multi-slot configuration to the physical channel created in	
Detailed Comments		G_CL1_CreateBasic	PhyCh_REQ ASP. For multi-slot configuration refer 3GPP TS 05.02 or	
		3GPP TS 45.002 [31] clause 6.4.2.	

ASP Name	G_CL1_CreateMultiSlotConfig_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is	The ASP is used to get the confirmation of a G_CL1_CreateMultiSlotConfig_REQ			
Parameter Name Parameter		Parameter Type	Comments		
cellid Cellid		CellId	The cell which the created multi-slot configuration belongs to.		
physicalChld PhysicalChld		PhysicalChId	The main physical channel identifier.		
Detailed Con	nments				

Type Name	MultiSlotAllocation		
Encoding Variation			
Comments	Used in multi-slot configu	uration	
Element Name	Type Definition	Field Encoding	Comments
tN0	BOOLEAN		TRUE - time slot 0 is allocated; FALSE not allocated
channelCombination0	ChannelCombination		Channel combination for time slot 0; not applicable if tN0 = FALSE
tN1	BOOLEAN		TRUE - time slot 1 is allocated; FALSE not allocated
channelCombination 1	ChannelCombination		Channel Combination for time slot 1; not applicable if tN1 = FALSE
tN2	BOOLEAN		TRUE - time slot 2 is allocated; FALSE not allocated
channelCombination 2	ChannelCombination		Channel Combination for time slot 2; not applicable if tN2 = FALSE
tN3	BOOLEAN		TRUE - time slot 3 is allocated; FALSE not allocated
channelCombination 3	ChannelCombination		Channel Combination for time slot 3; not applicable if tN3 = FALSE
tN4	BOOLEAN		TRUE - time slot 4 is allocated; FALSE not allocated
channelCombination 4	ChannelCombination		Channel Combination for time slot 4; not applicable if tN4 = FALSE
tN5	BOOLEAN		TRUE - time slot 5 is allocated; FALSE not allocated
channelCombination 5	ChannelCombination		Channel Combination for time slot 5; not applicable if tN5 = FALSE
tN6	BOOLEAN		TRUE - time slot 6 is allocated; FALSE not allocated
channelCombination 6	ChannelCombination		Channel Combination for time slot 6; not applicable if tN6 = FALSE
tN7	BOOLEAN		TRUE - time slot 7 is allocated; FALSE not allocated
channelCombination 7	ChannelCombination		Channel Combination for time slot 7; not applicable if tN7 = FALSE
Detailed Comments			S 05.02 or 3GPP TS 45.002 [31] clause 6.4.2. The Ch_REQ has set the channel combination shall be

ASP Name	C CL1	CiphoringControl DEO			
		G_CL1_CipheringControl_REQ			
PCO Type		G_CSAP			
Comments	cipherin calling	The ASP is used to set the ciphering mode of the physical channel in receiving direction, the kc and ciphering algorithm was set by the G_CL1_CreateBasicPhyCh_REQ for the physical channel before calling the ASP.			
Parameter Na	ame	Parameter Type	Comments		
cellId		CellId			
physicalChId		PhysicalChId	Channel identifier		
rcvCipherMode		BITSTRING[1]	Ciphering Mode in SS receiving direction: 0→ not ciphered 1→ ciphered		
Detailed Comn	ments	For GSM dedicated physical channel, the ciphering mode of the SS shall be changed in three steps: (3GPP TS 44.018 [43], clause 3.4.7) Before the SS sending CIPHERING MODE COMMAND the SS is transmitting and receiving in old ciphering mode (for example, not ciphered), after the SS sending CIPHERING MODE COMMAND the SS changes its receiving ciphering mode to new ciphering mode (for example,			

ASP Name	G_CL1_Cipher	G_CL1_CipheringControl_CNF			
PCO Type	G_CSAP				
Comments	The ASP is use	ed to co	nfirm that the G_CL1_CipheringControl_I	REQ is executed correctly.	
Parar	Parameter Name Parameter Type Comments				
cellId			CellId		
physicalChId			PhysicalChId	Channel identifier	
Detailed Co	mments				

ACD Name	0 014 0	main a EN DEO		
ASP Name		omingFN_REQ		
PCO Type	G_CSAP			
Comments	far enough channel. T message t	The ASP is used to request lower layer return the reduced frame number (FN modulo 42432) which is far enough in the future from current frame number and is able to carry L3 message on the specified channel. The requirement of "far enough" is that there is enough time left for TTCN to prepare a L3 message to send before that frame. The ASP could also be used in the calculation of a value for starting time		
Parameter	Name	Parameter Type	Comments	
cellld		CellId		
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.	
Detailed Con	nments			

ASP Name	G_CL1	L1_ComingFN_CNF		
PCO Type	G_CSA	<u> </u>		
Comments	The AS	P is used to receive th	e result of G_CL1_ComingFN_REQ.	
Parameter Na	me	Parameter Type	Comments	
cellld		CellId		
physicalChld		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 (FN modulo 42432) which is about 0.7 seconds later than current frame number and is able to carry L3 message on the channel specified by "physicalChId"+"G_LogicChType"+"subChannel"	
Detailed Comm	ents			

ASP Name	G_CL1_L1	G_CL1_L1Header_REQ		
PCO Type	G_CSAP	G CSAP		
Comments	The ASP is	s used to request lower	layer return the L1 header of SACCH.	
Parameter I	Name	Parameter Type	Comments	
cellld		CellId		
physicalChId		PhysicalChld	Channel identifier	
g_LogicChType		G_LogicChType	SACCH	
subChannel		SubChannelNumber	Valid only for logical channel types: SACCH/TH, SACCH/C8, and SACCH/C4 This field is not applicable and the SS shall ignore it if this field is coded as 15.	
Detailed Con	nments			

ASP Name	G_CL1_L1	G_CL1_L1Header_CNF		
PCO Type	G_CSAP			
Comments	The ASP is	s used to receive the re	sult of G_CL1_L1Header_REQ.	
Parameter I	Name	Parameter Type	Comments	
cellld		CellId		
physicalChld		PhysicalChld	Channel identifier	
g_LogicChType		G_LogicChType	SACCH	
subChannel		SubChannelNumber	Valid only for logical channel types: SACCH/TH, SACCH/C8, and SACCH/C4 This field is not applicable and the SS shall ignore it if this field is coded as 15.	
I1Header		L1HD	Power level and timing advance	
Detailed Con	nments			

ASP Name	G_CL1_De	G_CL1_DeleteChannel_REQ			
PCO Type	G_CSAP				
Comments	The ASP is	The ASP is used to delete a basic physical channel or an multi-slot configuration			
Parameter Name		Parameter Type	Comments		
cellId		CellId	The identifier of the cell which the channel to be deleted belongs to		
physicalChId Physical		PhysicalChld	The physical channel or the multi-slot configuration to be deleted.		
Detailed Con	nments				

ASP Name	G_CL1_De	G_CL1_DeleteChannel_CNF		
PCO Type	G_CSAP			
Comments	The ASP is	The ASP is used to get the confirmation of a G_CL1_DeleteChannel_REQ		
Parameter Name		Parameter Type	Comments	
cellId		CellId	The identifier of the cell which the deleted channel belongs to	
physicalChld Ph		PhysicalChld	The physical channel or multi-slot configuration deleted.	
Detailed Comments				

ASP Name G_CL1	G_CL1_ChModeModify_REQ			
PCO Type G_CSA	G_CSAP			
Comments The AS	P is used to modify the c	hannel mode of a dedicated channel		
Parameter Name	Parameter Type	Comments		
cellId	CellId	The identifier of the cell		
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.		
chMode	ChMode	Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.1b		
Detailed Comments				

ASP Name G_C	G_CL1_ChModeModify_CNF		
PCO Type G_C	G_CSAP		
Comments The	ASP is used to get the conf	firmation of a G_CL1_ChModeModify_REQ	
Parameter Name	Parameter Type	Comments	
cellId	CellId	The identifier of the cell	
physicalChld	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.	
Detailed Comment	S		

ASP Name	G_CL1_S	G_CL1_SetNewKey_REQ		
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP	is used to set new cip	her key for a dedicated channel	
Parameter N	lame	Parameter Type	Comments	
cellId		CellId	The identifier of the cell	
physicalChId		PhysicalChId	The channel which uses the new key	
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.	
cipherKey		BITSTRING[64]		
Detailed Com	ments			

ASP Name G_CL1_	G_CL1_SetNewKey_CNF		
PCO Type G_CSAI	G_CSAP		
Comments The ASI	P is used to get the confir	mation of a G_CL1_SetNewKey_REQ	
Parameter Name	Parameter Type	Comments	
cellid	CellId	The identifier of the cell	
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.	
Detailed Comments			

ASP Name	G_CL1_CipherModeModify_REQ		
PCO Type	G_CSAP		
Comments	The AS	P is used to modify cip	her mode of a dedicated channel
Parameter Na	me	Parameter Type	Comments
cellId		CellId	The identifier of the cell
physicalChld		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.
cipherMode		CipherModeSetting	The new cipher mode. Definition see 3GPP TS 04.18 or 3GPP TS 44.018 [43] clause 10.5.2.9
Detailed Comm	ents		

ASP Name	G_CL1	G_CL1_CipherModeModify_CNF		
PCO Type	G CSAP			
Comments	The AS	SP is used to get the co	nfirmation of a G_CL1_CipherModeModify_REQ	
Parameter Na	ame	Parameter Type	Comments	
cellld		CellId	The identifier of the cell	
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.	
Detailed Comn	nents			

ASP Name	G_CL1	G_CL1_ChangePowerLevel_REQ		
PCO Type	G_CSA	G_CSAP		
Comments	The AS	P is used to change to	he transmission power level of a physical channel	
Parameter Name		Parameter Type	Comments	
cellld		CellId	The identifier of the cell which the physical channel belongs to	
physicalChld		PhysicalChId	Channel using the new transmission power level	
txPower		TX_Power	The new transmission power level in dBμVemf()	
Detailed Comn	nents			

ASP Name	G_CL1_0	G_CL1_ChangePowerLevel_CNF			
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP	The ASP is used to get the confirmation of a G_CL1_ChangePowerLevel_REQ			
Parameter Name		Parameter Type	Comments		
cellId		CellId	The identifier of the cell		
physicalChld		PhysicalChId	The physical channel which uses the new transmission power level		
Detailed Comments					

ASPs for configuration and control of GERAN L2 7.3.4.3.2.2

ASP Name	G_CL2_I	HoldPhyInfo_REQ		
PCO Type	G_CSAP	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	
cellld		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.	
n		INTEGER	The number of handover access bursts to be received	
Detailed Com	ments	T3124 is defined in 3GP	P TS 04.18 or 3GPP TS 44.018 [43] 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 conf	irmation of the G_CL2_HoldPhyInfo_REQ.	
Parameter Na	ame	Parameter Type	Comments	
cellld		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 Comn	nents			

ASP Name	G_CL2_MeasRptControl_REQ			
PCO Type	G_CSAP			
Comments	The ASP is u	sed to enable or disable the reporting	g of received Measurement Reports to the TTCN	
Parameter	Name	Parameter Type	Comments	
cellId		CellId		
physicalChId		PhysicalChId	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		BOOLEAN	Whether or not to report received Measurement Reports to the TTCN.	
Detailed Cor	mments	Per default, this will be set to FALSE		

ASP Name	G_CL2_MeasRptControl_CNF			
PCO Type	G_CSAP			
Comments	The ASP is u	sed to confirm that G_CL2_MeasRpt	Control_REQ was executed correctly	
Parameter	Name	Parameter Type	Comments	
cellId		CellId		
physicalChld		PhysicalChId	Channel identifier	
Detailed Cor	nments			

ASP Name	G_CL2_I	G_CL2_NoUAforSABM_REQ		
PCO Type	G_CSAP	G CSAP		
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	
cellld		CellId		
physicalChId		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		
PCO Type	G_CSAP		
Comments	The AS	P is used to get a confir	mation of the G_CL2_NoUAforSABM_REQ.
Parameter Na	ame	Parameter Type	Comments
cellld		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_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		
cellId		CellId			
physicalChld		PhysicalChId	Channel identifier		
Detailed Comments					

ASP Name	G_CL2_Rele	G_CL2_Release_CNF			
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is u	The ASP is used to confirm that the G_CL2_Release_REQ is executed correctly			
Parameter	Name	Parameter Type	Comments		
cellid		CellId			
physicalChId		PhysicalChId	Channel identifier		

ASP Name	G_CL2_I	G_CL2_ResumeUAforSABM_REQ		
PCO Type	G_CSAP	G_CSAP		
Comments	the speci	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	
cellld		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	The ASP is used to get a confirmation of the G_CL2_ResumeUAforSABM_REQ.		
Parameter N	ame	Parameter Type	Comments	
cellld		CellId		
physicalChId		PhysicalChId	Channel identifier	
g_LogicChType		G_LogicChType		
		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			

7.3.4.3.2.3 ASPs for configuration and control of GERAN RLC/MAC

ASP Name	G_CRLC_CreateRLC_	G_CRLC_CreateRLC_MAC_REQ			
PCO Type	G_CSAP	CSAP			
Comments	The ASP is used to cre	eate a RLC/MAC entity in GERAN RLC/M	IAC emulation module.		
Paran	neter Name	Parameter Type	Comments		
cellId		CellId	The identifier of the cell		
Detailed Comm	RLC/MAC emula G_CL1_CreateB	One RLC/MAC entity per cell can exist, cellId will be used for couping LLC layer module to the RLC/MAC emulation module The packet channel description given in the ChannelSpecificInfo of G_CL1_CreateBasicPhyCh_REQ shall be used to configure this layer. This ASP shall be called after the G_CL1_CreateBasicPhyCh_REQ ASP.			

ASP Name	G_CRLC_CreateRLC_MAC_CNF			
PCO Type	G_CSAP	G_CSAP		
Comments	The ASP is used to co	The ASP is used to confirm the G_CRLC_CreateRLC_MAC_REQ		
Paran	neter Name	Parameter Type	Comments	
cellid		CellId	The identifier of the cell	
Detailed Co	mments			

ASP Name	G_CRLC_DeleteRLC_MAC_REQ			
PCO Type	G_CSAP			
Comments	The ASP is used to de	lete a RLC/MAC entity in GERAN of	emulation module.	
Parameter Name Parameter Type Comments				
Paran	neter Name	Parameter Type	Comments	
cellid		CellId	Comments The identifier of the cell	

ASP Name	G_CRLC_DeleteRLC_MAC_CNF			
PCO Type	G_CSAP			
Comments	The ASP is used to co	The ASP is used to confirm the G_CRLC_CreateRLC_MAC_REQ		
Parameter Name Parameter Type Comments			Comments	
	icter Hairie	i didilicter Type	Comments	
cellid	ieter Name	71	The identifier of the cell	

ASP Name G	CRLC	_C_UL_TBF_Config_REQ			
PCO Type G_	_CSAP				
Comments Th	ne ASP	is used to configure a TBF (used for uplink packet data transfer		
Parameter Nam	ne	Parameter Type	Comments		
cellId		CellId			
tFI		TFI			
tBF_Mode		BITSTRING[1]	0 - GPRS; 1 - EGPRS		
channelCoding		ChannelCoding			
tLLI_BlockChannelC	Coding	BITSTRING[1]	0 - CS-1 or MCS-1(EGPRS); 1 - same as channelCoding		
rLC_Mode		BITSTRING[1]	0 - acknowledged mode; 1 - unacknowledged mode		
startingTime		RFN	This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.		
uSF_Rate		INTEGER	This parameter controls the speed of the UL TBF transferring data blocks by controlling the USF rate: 1> implementation dependent. TTCN does not specify the USF generating rate; 2> 10 USF's per second; 3> 5 USF's per second; 4> 1 USF per second; 5> 1 USF per 2 seconds; 6> 1 USF per 3 seconds; 7> 1 USF per 4 seconds.		
dynamicAllocation		dynamicAllocation	dynamic allocation and other parameters.		
Detailed Comme		For GPRS channel coding can be: CS-1, CS-2, CS-3 and CS-4; For EGPRS channel coding can be: MCS-1, MCS-2, MCS-3, MCS-4, MCS-5, MCS-6, MCS-7, MCS-8, MCS-9, MCS-5-7 and MCS-6-9. Due to one cell currently has only one RLC/MAC emulation module, this ASP does not			

ASP Name	G_CRLC_UL_TBF_Config_CNF				
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is used to ge	The ASP is used to get the confirmation of a G_CRLC_UL_TBF_Config_REQ			
Paran	neter Name	Parameter Type	Comments		
cellld		CellId			
tFI		TFI			
Detailed Co	Detailed Comments				

Type Name	ChannelCoding
Type Definition	INTEGER
Type Encoding	
	1 - CS-1;
	2 - CS-2;
	3 - CS-3;
	4 CS-4;
	5 - MCS-1;
	6 - MCS-2;
	7 - MCS-3;
Comments	8 - MCS-4;
	9 - MCS-5;
	10 - MCS-6;
	11 - MCS-7;
	12 - MCS-8;
	13 - MCS-9;
	14 - MCS-5-7;
	15 - MCS-6-9

Type Name	DynamicAllocation		
Encoding Variation			
Comments	Used for up link TBF; d	lynamic allocation of	or extended dynamic allocation
Element Name	Type Definition	Field Encoding	Comments
extendedAllocation	BITSTRING[1]		0 - dynamic allocation; 1 - extended dynamic allocation
uSFGranularity	BITSTRING[1]		0 - one block; 1 - four blocks
physicalChld	PhysicalChId		Single PDCH or multislot-configured PDCHs
tN0	BOOLEAN		TRUE - time slot 0 is allocated; FALSE not allocated
uSF_TN0	BITSTRING[3]		USF value for slot 0
tN1	BOOLEAN		TRUE - time slot 1 is allocated; FALSE not allocated
uSF_TN1	BITSTRING[3]		USF value for slot 1
tN2	BOOLEAN		TRUE - time slot 2 is allocated; FALSE not allocated
uSF_TN2	BITSTRING[3]		USF value for slot 2
tN3	BOOLEAN		TRUE - time slot 3 is allocated; FALSE not allocated
uSF_TN3	BITSTRING[3]		USF value for slot 3
tN4	BOOLEAN		TRUE - time slot 4 is allocated; FALSE not allocated
uSF_TN4	BITSTRING[3]		USF value for slot 4
tN5	BOOLEAN		TRUE - time slot 5 is allocated; FALSE not allocated
uSF_TN5	BITSTRING[3]		USF value for slot 5
tN6	BOOLEAN		TRUE - time slot 6 is allocated; FALSE not allocated
uSF_TN6	BITSTRING[3]		USF value for slot 6
tN7	BOOLEAN		TRUE - time slot 7 is allocated; FALSE not allocated
uSF_TN7	BITSTRING[3]		USF value for slot 7
Detailed Comments	The uSF_TNx field is n	ot applicable when	tNx = FALSE.

ASP Name	G_CF	RLC_DL_TBF_Config_REQ		
PCO Type	G_CS	SAP		
Comments	The A	ASP is used to configure a TBF used for down link packet data transfer		
Parameter Na	me	Parameter Type	Comments	
cellld		CellId		
tFI		TFI		
tBF_Mode		BITSTRING[1]	0 - GPRS; 1 - EGPRS	
channelCoding		ChannelCoding		
rLC_Mode		BITSTRING[1]	0 - acknowledged mode; 1 - unacknowledged mode	
timeSlotAllocation	n	TimeSlotAllocation	Downlink TBF time slot allocation	
startingTime		RFN	This field is not applicable and the SS shall ignore it if the field t2 of rfn is coded as '11111'B.	
dataBlockRate	Integer Int			
Detailed Comm	ents	For GPRS channel coding can be: CS-1, CS-2, CS-3 and CS-4; For EGPRS channel coding can be: MCS-1, MCS-2, MCS-3, MCS-4, MCS-5, MCS-6, MCS-7, MCS-8, MCS-9, MCS-5-7 and MCS-6-9.		

ASP Name	G_CRLC_DL_TBF_Config_CNF			
PCO Type	G_CSAP			
Comments	The ASP is used to g	The ASP is used to get the confirmation of a G_CRLC_DL_TBF_Config_REQ		
Parameter Name		Parameter Type	Comments	
cellId		CellId		
tFI		TFI		
Detailed Co	mments			

Type Name	TimeSlotAllocation		
Encoding Variation			
Comments	Used for downlink ar	nd up link TBF	
Element Name	Type Definition	Field Encoding	Comments
physicalChld	PhysicalChId		single PDCH or multislot-configured PDCHs
tNO	BOOLEAN		Timeslot 0; TRUE - allocated; FALSE - not allocated.
tN1	BOOLEAN		Timeslot 1; TRUE - allocated; FALSE - not allocated.
tN2	BOOLEAN		Timeslot 2; TRUE - allocated; FALSE - not allocated.
tN3	BOOLEAN		Timeslot 3; TRUE - allocated; FALSE - not allocated.
tN4	BOOLEAN		Timeslot 4; TRUE - allocated; FALSE - not allocated.
tN5	BOOLEAN	_	Timeslot 5; TRUE - allocated; FALSE - not allocated.
tN6	BOOLEAN		Timeslot 6; TRUE - allocated; FALSE - not allocated.
tN7	BOOLEAN		Timeslot 7; TRUE - allocated; FALSE - not allocated.
Detailed Comments			

7.3.4.3.2.4 ASPs for configuration and control of GERAN LLC

ASP Name	G_CLLC	G_CLLC_CreateLLE_REQ		
PCO Type	G_CSAP			
		The ASP is used to create an LLE (LLC Entity) in GERAN emulation part of the SS and connects the created LLE to the RLC/MAC emulation module pointed by rLC/MAC_MappingInfo		
Parameter N	lame	Parameter Type	Comments	
ILMEId	LLMEId		Logical Layer Management Entity Id	
rl C/MAC MappingInfo CellId		IL DIIIO	This parameter indicates the RLC/MAC emulation module in the cell, not the cell itself.	
Detailed Com	ments	The RLC/MAC emulation G_CRLC_CreateRLC_M	n module needs to be created prior to this ASP by IAC_REQ ASP.	

ASP Name	G_CLLC_Crea	G_CLLC_CreateLLE_CNF			
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is use	The ASP is used to confirm the G_CLLC_CreateLLE_REQ			
Parameter Name			Parameter Type	Comments	
ILMEId		LLMEId	The identifier of the cell Logical Layer Management Entity Id		
Detailed Co	mments				

ASP Name	G_CLLC_DeleteLLE_REQ				
PCO Type	G_CSAP				
Comments	The ASP is used to	The ASP is used to delete an LLE (LLC Entity) in GERAN LLC emulation module.			
Paran	ameter Name Parameter Type Comments				
ILMEId		LLMEId	Logical Layer Management Entity Id		
Detailed Co	mments				

ASP Name	G_CLLC_DeleteLLE	G_CLLC_DeleteLLE_CNF			
PCO Type	G_CSAP	G_CSAP			
Comments	The ASP is used to confirm the G_CLLC_DeleteLLE_REQ				
Parar	neter Name	Parameter Type	Comments		
Parar ILMEId	neter Name	Parameter Type LLMEId	Comments Logical Layer Management Entity Id		

ASP Name	G_0	G_CLLC_Assign_REQ		
PCO Type		CSAP		
Comments	algo	orithm of GERAN LLC emulation n	or unassign the TLLI, the ciphering key (Kc) and the ciphering nodule.	
Parameter Name		Parameter Type	Comments	
ILMEId		LLMEId	Logical Layer Management Entity Id	
		1	OCTETSTRING[4]	
newTLLI TLLI				
cipherKey		BITSTRING[64]		
cipherAlgorithm		GPRS_CipherAlg	BITSTRING[3], see 3GPP TS 24.008 [9] clause 10.5.5.3	
Detailed Comments		algorithm. 1. The oldTLLI and newTLLI parall 1's and new (re-)transmitting LLC frame is unassigned. Only newTL a TLLI change. If oldTLLI = TLLI assignment, and this to process requests from laterall 1's and new newTLLI shall be used where be accepted when receive - If oldTLLI ≠ all 1's and new as a TLLI unassignment, a disable LLC to not process 2. Kc and Ciphering Algorithm and - If Ciphering Algorithm disabled. - Otherwise, the ciphering associated with newTLLI cophering Algorithm shall rull frames with the E bit se unacknowledged I frames	ge, or unassign the TLLI, the ciphering key (Kc) and the ciphering ameters shall be interpreted as follows: VTLLI ≠ all 1's then newTLLI is assigned and used when es. If an oldTLLI ≠ all 1's was assigned to the LLME, then oldTLLI LLI is accepted when received from the peer. It shall be treated as = all 1's was assigned to the LLME, then this shall be treated as a ASP shall be the first ASP sent to the SS in order to enable LLC	

ASP Name	G_CLLC_Assign_CNF	G_CLLC_Assign_CNF			
PCO Type	G_CSAP	G_CSAP			
Comments	the ASP is used to get	the ASP is used to get confirmation of G_CLLC_Assign_REQ			
Paran	neter Name	Parameter Type	Comments		
Paran ILMEId	neter Name	7.	Comments Logical Layer Management Entity Id		

ASP Name	G_CLLC	G_CLLC_ReassignLLE_REQ		
PCO Type	G_CSAP			
Comments	The ASP	The ASP is used to reassign RLC/MAC entity to the specified LLME Identity.		
Parameter N	Name Parameter Type		Comments	
ILMEId	LLMEId		Logical Layer Management Entity Id	
rLC/MAC_MappingInfo		CellId	This parameter indicates the RLC/MAC emulation module in the cell, not the cell itself	
tLLI TLLI		TLLI		
Detailed Com	ments	This ASP allows simulation of	Intra-SGSN operations in tests.	

ASP Name	G_CLLC_ReassignLLE_CNF			
PCO Type	G_CSAP			
Comments	The ASP is used to confirm the G_CLLC_ReassignLLE_REQ			
	Parameter Name Parameter Type Comments			
Paran	neter Name	Paramet	er Type	Comments
Paran ILMEId	neter Name	Paramet LLMEId	71	Comments Logical Layer Management Entity Id

7.3.4.3.2.5 ASPs for configuration and control of GERAN SNDCP

ASP Name	G_CSN	NDCP_Activate_REQ	DCP_Activate_REQ		
PCO Type	G_CSA				
Comments	The AS	is used to activate the SNDC entity			
Parameter Na	ame	Parameter Type	Comments		
sNDCPId		SNDCPId	The SNDCP entity identifier of the cell		
ILMEId		LLMEId	Logical link management entity Id		
nSAPI		NSAPI	The Network Service Access Point Identifier		
sAPI		SAPI	LLC SAPI		
PCI_Compressio	n	INTEGER	0 - RFC 1144 [46] compress; 1 - RFC 2507 [30] compression; 32 - no compression		
dataCompression		INTEGER	0 - ITU-T Recommendation V.42bis [47] compression; 1 - ITU-T Recommendation V.44 [48] compression; 32 - no compression		
nPDUNumberSy	nc	INTEGER	0 - Asynchronous 1 - Synchronous		
Detailed Comn	nents				

ASP Name	G_CSNDCP_Ac	G_CSNDCP_Activate_CNF			
PCO Type	G_CSAP	G CSAP			
Comments	The ASP is used	d to get the confirmation of a G_CSI	NDCP_Activate_REQ		
Paramete	er Name	Parameter Type	Comments		
sNDCPId		SNDCPId SNDCPentity identifier			
nSAPI	NSAPI The Network Service Access Point Identifier				
Detailed Co	mments				

ASP Name	G_CSNDC	P_SNSM_Activate_RES		
PCO Type	G_CSAP			
Comments	This ASP i	This ASP is used to inform that the NSAPI is in use and the acknowledge mode peer to peer LLC		
Comments	operation f	operation for the requested SAPI is established.		
Parameter I	Name	Parameter Type	Comments	
sNDCPId	SNDCPId		The SNDCP entity identifier	
tLLI	TLLI		Temporary Logical Link Entity	
nSAPI	NSAPI The Network Service Access Point Identifier		The Network Service Access Point Identifier	
Detailed Com	nments			

ASP Name	G_CSNDCP_SNSM_Deactivate_IND		
PCO Type	G_CSAP		
	This ASP is used to inform the SNDCP emulator that an NSAPI has been deactivated and cannot be used anymore. Upon reception of this ASP the SNDCP emulator shall release acknowledged peer-to-peer LLC operation for the associated SAPI.		
Parameter Name		Parameter Type	Comments
sNDCPId		SNDCPId	The SNDCP entity identifier
tLLI		TLLI	Temporary Logical Link Entity
nSAPI		NSAPI	The Network Service Access Point Identifier
ILCReleaseIndicator		INTEGER	Deactivation cause
Detailed Cor	mments		

ASP Name	G_CSNDCP_SN	G_CSNDCP_SNSM_Deactivate_RES		
PCO Type	G_CSAP			
Comments	This ASP indicates that the NSAPI is no longer in use and the acknowledged peer to peer LLC			
Comments	operation for the	operation for the requested SAPI has been released.		
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId	The SNDCP entity identifier	
tLLI		TLLI	Temporary Logical Link Entity	
nSAPI		NSAPI	The Network Service Access Point Identifier	
Detailed Co	mments			

ASP Name	G_CSNDCP_S	G_CSNDCP_SNSM_Status_REQ			
PCO Type	G_CSAP				
Comments	This ASP informs that the SNDCP cannot continue its operation due to errors in the lower layers of the protocol stack.				
Parameter Name			Parameter Type	Comments	
sNDCPId			SNDCPId	The SNDCP entity identifier	
tLLI			TLLI	Temporary Logical Link Entity	
sAPI		SAPI	The Service Access Point Identifier		
cause		INTEGER	Error cause		
Detailed Co	mments	•			

ASP Name	G_CSNDCP_S	G_CSNDCP_SNSM_Modify_IND			
PCO Type	G_CSAP	G CSAP			
Comments		This ASP informs the SNDCP emulator to trigger the change of QoS profile for an NSAPI and indication of the SAPI to be used			
Paramete	er Name	Parameter Type	Comments		
sNDCPId		SNDCPId	The SNDCP entity identifier		
tLLI		TLLI	Temporary Logical Link Entity		
nSAPI		NSAPI	The Network Service Access Point Identifier		
qos		OCTETSTRING[4]	Quality of Service, defined 3GPP TS 04.08 or 3GPP TS 44.008 [49] clause 10.5.6.5		
sAPI		SAPI			
send_NPDU_Number		INTEGER			
received_NPDU_Number		INTEGER			
Detailed Comments					

ASP Name	G_CSNDCP_	SNSM_Modify_RES		
PCO Type	G_CSAP			
Comments		cates that the NSAPI and QoS profile are now in used and the acknowledged peer to		
Comments	peer LLC oper	peer LLC operations for the appropriate SAPIs are established and/or released		
Parameter Name		Parameter Type	Comments	
sNDCPId		SNDCPId	The SNDCP entity identifier	
tLLI		TLLI	Temporary Logical Link Entity	
nSAPI		NSAPI	The Network Service Access Point Identifier	
Detailed Co	mments			

7.3.5 A-GPS Upper tester, PCO and ASP definitions

7.3.5.1 Upper tester

In order to perform A-GPS test, an Upper Tester is defined to have two basic functional unites:

- Satellite simulator generating and broadcasting satellite signals;
- Assistance data source storing the data simulating a number of pre-defined GPS test scenarios.

Under the TTCN command, the upper tester loads a pre-defined or re-loads another pre-defined GPS test scenario to the satellite simulator. The generated satellite signals shall simulate a sufficient number satellites. The signal shall be sufficiently strong, in order to enable the UE to do the positioning measurement.

The SS also sends the GPS assistance data to the UE through RRC signalling to facilitate the UE acquiring and tracking satellites. Such assistance data shall be consistent to within ± 2 seconds with the satellite signals generated.

The assistance data source shall provide the assistance data consistent to +1/-0 second with the GPS test scenario currently running in the satellite simulator (i.e. the data shall be up to 1 second in advance of the scenario); this allows for a further 2 seconds of latency in the SS.

7.3.5.2 SV PCO

The upper tester has an ASP interface through a PCO in type of SatS PCO defined in the table.

PCO Type Declarations		
PCO Type	SatS	
Role	UT	
Comments	PCO type used for the Satellite Simulator and the assistance data source in the	
	upper tester	

PCO Declarations		
PCO Name	SV	
PCO Type	SatS	
Role	UT	
	Carry control, configuration and GPS assistance data to/from satellite simulator and assistance data source in the upper tester	

7.3.5.3 A-GPS Primitives

The primitives at SV PCO are used to

- load a pre-defined GPS test scenario into the satellite simulator;
- start or stop generating and broadcasting satellite signals from the satellite simulator;
- retrieve the GPS assistance data from assistance data source, the table below is the summary of these primitives.

Primitive	Parameters	Use
Satellite_StartStop_REQ	Mode: start or stop	Start or stop generating satellite signals in the
		satellite simulator.
Satellite_StartStop_CNF	Null	Confirm the Satellite_StartStop_Req.
Load_GPS_Scenario_REQ	GPS test scenario number	Requests to load a pre-defined GPS test
		scenario into the satellite simulator
Load_GPS_Scenario_CNF	Null	Confirm the load_GPS_Scenario_Req
Retri_GPS_AssistanceData_REQ		Request the assistance data source to provide
	data elements to be retrieved	the next (in time) valid GPS assistance data
		elements.
Retri_GPS_AssistanceData_CNF	GPS assistance data elements	Return the GPS assistance data retrieved

7.3.5.3.1 Control ASP Type Definition

ASN.1 ASP Type Definition			
Type Name	Satellite_StartStop_CNF		
PCO Type	SatS		
Comment	To confirm successful of Satellite_StartStop_REQ		
Type Definition			
SEQUENCE { conf }	irm NULL		

	ASN.1 ASP Type Definition		
Type N	lame	Satellite_StartStop_REQ	
PCO T	уре	SatS	
Comm		To start or stop generating satellite signals in the satellite simulator "start" starts broadcasting satellite signals; "stop" stops broadcasting satellite signals If used for start (0), this ASP shall be called 2 s. after the ASP Load_GPS_Scenario_REQ for loading or reloading a pre-defined GPS test scenario.	
Type Definition			
SEQUENCE }	{ satellite	eSignals ENUMERATED {startSatSignal (0), stopSatSignal (1)}	

7.3.5.3.2 Data ASP Type Definition

	ASN.1 ASP Type Definition			
Type N	lame	Load_GPS_Scenario_CNF		
PCO 1	Гуре	SatS		
Comn	nent	To confirm the Load_GPS_Scenario_REQ		
	Type Definition			
SEQUENCE	{ d.:	NULL		
}	dummy	NOLL		

ASN.1 ASP Type Definition			
Type Name	Load_GPS_Scenario_REQ		
PCO Type	SatS		
Comment	To request the upper tester to load the required pre-defined GPS test scenario.		
Type Definition			
SEQUENCE { gps Scen.	ario INTEGER(031)}		

	ASN.1 ASP Type Definition		
Type Name	Retri_GPS_AssistanceData_CNF		
PCO Type	SatS		
Comment	To return the next valid GPS assistance data elements as requested in the Retri_GPS_AssistanceData_REQ. The returned GPS assistance data (all or part) will be used as assistance data sent to UE in RRC messages for A-GPS positioning. The returned Almanac information is split into two fields: - Almanac for satellites 1 to 12:in 'assistanceData' together with other information; - Almanac for satellites 13 to 24: in 'almanacSat13To24'		
	Type Definition		
SEQUENCE {			
	nceData UE_Positioning_GPS_AssistanceData, Sat13To24 AlmanacSatInfoList OPTIONAL		

	ASN.1 ASP Type Definition		
Type Name	Retri_GPS_AssistanceData_REQ		
PCO Type	SatS		
	To request the GPS assistance data source to provide the next valid GPS assistance data elements, consistent with the running GPS test scenario. The parameter navModelAddDataRequest in the assistanceDataReq shall be omitted. Another three parameters, utcModelRequest, dgpsCorrectionsRequest and realTimeIntegrityRequest in the assistanceDataReq are not applicable and shall be set to "FALSE".		
	Type Definition		
SEQUENCE { assistanceDataRed }	q UE_Positioning_GPS_AdditionalAssistanceDataRequest		

7.3.6 ROHC test model and ASP

7.3.6.1 ROHC test method

The ROHC test architecture illustrates the relationship between various compressor and de-compressor entities. No decompressor is implemented in PDCP on the uplink direction in the SS.

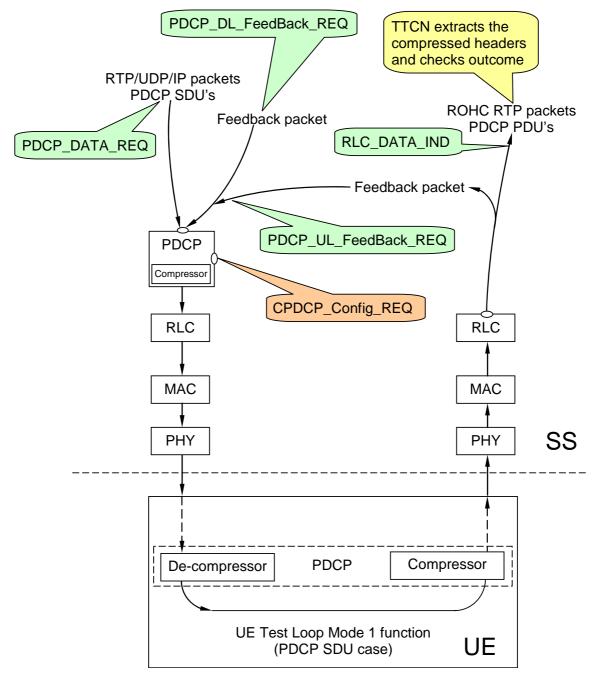


Figure 24: ROHC testing architecture

7.3.6.2 ASP and PCO for control primitives transmission and reception

7.3.6.2.1 PCO definition

Table 33: PCO CPDCP declaration

PCO Definition	
PCO Name	CPDCP
PCO Type	CSAP
Role	LT
Comment	Provide PDCP Layer configuration service

7.3.6.2.2 CPDCP_Config

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

	ASN.1 ASP Type Definition			
Type I	Name	me CPDCP_Config_REQ		
PCO	Туре	CSAP		
Comi	ment	To request to configure PDCP entity. Setup is used for creation of the PDCP instances or the PDCP resources. Release is used for free the all PDCP resources. The reconfiguration is to change the PDCP parameters. PDCP entity does not belong to a particular cell, the cellId shall assign the value -1. the routingInfo is RB identity which is used to connect this PDCP entity to the RLC entity with the same RB identity and it is also used for PDCP_DATA_REGAMP to transmit data through this PDCP entity.		
		Type Definition		
SEQUENCE	{ cellId routingIn ratType configMes setup recon relea }	RatType, sage CHOICE { SS_PDCP_Info_r4, figure SS_PDCP_InfoReconfig_r4,		

ASN.1 Type Definition			
Type Name	SS_PDCP_Info_r4		
Comment	When configuring downlink direction of the SS, the UL_RFC3095-r4 shall be used; when configuring uplink direction of the SS the DL_RFC3095-r4 shall be used.		
	Type Definition		
SEQUENCE {	TargetMode PDCP_ROHC_TargetMode, PDCP_Info_r4		

ASN.1 Type Definition			
Type Name	SS_PDCP_InfoReconfig_r4		
Comment	When configuring downlink direction of the SS, the UL_RFC3095-r4 shall be used; when configuring uplink direction of the SS the DL_RFC3095-r4 shall be used.		
Type Definition			
SEQUENCE { pDCP_ROHC_' pDCP_Info	TargetMode PDCP_ROHC_TargetMode, PDCP_InfoReconfig_r4		

7.3.6.2.3 CPDCP_ComProtocolControl

ASN.1 ASP Type Definition		
Type Name	CPDCP_ComProtocolControl_CNF	
PCO Type	CSAP	
Comment	For PDCP emulator to report that a previous attempt to control the compression protocol is successful.	
	Type Definition	
	llId INTEGER(-163), utingInfo RoutingInfo	

		ASN.1 ASP Type Definition	
Type Nan	e CPDCP	_ComProtocolControl_REQ	
PCO Type CSAP			
Comment To en Tr RI AS		To request to reinitialize/context-relocate the compression protocol. PDCP entity does not belong to a particular cell; the cellId shall assign the value -1. The routingInfo is RB identity which is used to connect this PDCP entity to the RLC entity with the same RB identity and it is also used for PDCP_DATA_RECASP to transmit data through this PDCP entity. For reinitialization: - Configured compression parameters remain valid. - All compression state information is initialized. - The PDCP sequence numbers are not changed. - Actions specified in section 6.3.1 of RFC 3095 [54]. For contextRelocation: - initialize the context with the parameter in the ASP - valid for RFC3095 compression only	
	Type Definition		
SEQUENCE {		· · · · · · · · · · · · · · · · · · ·	

ASN.1 Type Definition				
Type Name	Context			
Comment	Adapted from ASN1 type: RFC3095_Context_List			
	Type Definition			
SEQUENCE (SIZE	(1maxRFC3095_CID)) OF SEQUENCE {			
dl_RFC3095_Cont	text DL_RFC3095_Context OPTIONAL,			
ul_RFC3095_Cont	text UL_RFC3095_Context OPTIONAL			
]}				

```
ASN.1 Type Definition
                       DL_RFC3095_Context
    Type Name
     Comment
                       For the compressor in the SS
                                               Type Definition
SEQUENCE
                                                  INTEGER (0..16383), ENUMERATED \{u, o, r\}, OCTET STRING (SIZE (1..3000)),
    rfc3095_Context_Identity
    dl_mode
    dl_ref_ir
    dl_ref_time
dl_curr_time
dl_syn_offset_id
dl_syn_slope_ts
dl_dyn_changed
                                                  INTEGER (0..4294967295) OPTIONAL,
                                                  INTEGER (0..4294967295)
                                                                                      OPTIONAL,
                                                  INTEGER (0..65535)
                                                                                      OPTIONAL,
                                                                                      OPTIONAL,
                                                  INTEGER (0..4294967295)
                                                  BOOLEAN
```

ASN.1 Type Definition				
Type Name	UL_RFC3095_Context			
Comment	For the de-compressor i	n the SS		
	Ту	pe Definit	ion	
SEQUENCE {				
rfc3095_Context	t_Identity	INTEGER	(016383),	
ul_mode		ENUMERA	TED $\{u, o, r\}$,	
ul_ref_ir		OCTET ST	TRING (SIZE (13	000)),
ul_ref_time		INTEGER	(04294967295)	OPTIONAL,
ul_curr_time		INTEGER	(04294967295)	OPTIONAL,
ul_syn_offset_:	id	INTEGER	(065535)	OPTIONAL,
ul syn slope ts	5	INTEGER	(04294967295)	OPTIONAL,
ul ref sn 1		INTEGER	(065535)	OPTIONAL
]}				

7.3.6.3 ASP and PCO for data transmission and reception

7.3.6.3.1 PCO definition

Table 34: PCO PDCP declaration

PCO Type Definition		
PCO Name	PDCP	
PCO Type	DSAP	
Role	LT	
Comment	Provide PDCP data transfer service	

7.3.6.3.2 PDCP_DATA

ASP Name	PDCP_D/	PDCP_DATA_REQ		
PCO Type	DSAP	DSAP		
Comments	To reques	st to transmit data (PDC	CP SDU)	
Parameter N	Name Parameter Type Comments			
cellId	Cellid			
rB_ld		SS_RB_Identity Radio bearer identifier		
pDCP_SDU	PDU IPv4/UDP/RTP or IPv6/UDP/RTP PDUs			
Detailed				
Comments				

ASP Name	PDCP_DA	PDCP_DATA_IND		
PCO Type	DSAP	DSAP		
Comments	To indicat	e to receive data (PDC	P SDU)	
Parameter N				
cellId	Cellid			
rB_ld	SS_RB_Identity Radio bearer identifier			
pDCP_SDU	PDU IPv4/UDP/RTP or IPv6/UDP/RTP PDUs			
Detailed				
Comments				

7.3.6.3.3 PDCP_DL_FeedBack

ASP Name	PDCP_DI	PDCP_DL_FeedBack_CNF		
PCO Type	DSAP			
Comments	For the S	For the SS to confirm a previous PDCP_DL_FeedBack_REQ.		
Parameter Na	ame Parameter Type Comments			
cellId	Cellid			
rB_ld	SS_RB_Identity Radio bearer identifier			
Detailed				
Comments				

ASP Name	PDCP_DL_FeedBack_REQ			
PCO Type	DSAP			
Comments	To reques	To request the SS to send a feedback packet to the compressor in the UE.		
Parameter Na	me	Parameter Type	Comments	
cellId		CellId		
rB_ld		SS_RB_Identity	Radio bearer identifier	
feedBackPacket1		FeedBackPacket1	either of feedBackPacket1 or feedBackPacket2 is presented	
feedBackPacket2	FeedBackPacket2			
Detailed Comments				

ASP Name	PDCP_UL_FeedBack_CNF			
PCO Type	DSAP	DSAP		
Comments	For the S	For the SS to confirm a previous PDCP_UL_FeedBack_REQ.		
Parameter Na	ame Parameter Type Comments			
cellId		CellId		
rB_ld	SS_RB_Identity Radio bearer identifier			
Detailed				
Comments				

ASP Name	PDCP_UL	FeedBack_REQ		
PCO Type	DSAP			
Comments	in the SS. When a fe	To request the SS to pass a feedback packet received on uplink to the compressor		
Parameter Na	r Name Parameter Type		Comments	
cellId		CellId		
rB_ld		SS_RB_Identity	Radio bearer identifier	
		FeedBackPacket1	either of feedBackPacket1 or feedBackPacket2 is presented	
feedBackPacket2 FeedB		FeedBackPacket2		
Detailed				
Comments				

Type Name	FeedBackPacket1			
Encoding Variation				
Comments	For ROHC RTP			
Element Name	Type Definition	Field Encoding	Comments	
feedBackType	BITSTRING[5]		'11110'B	
code	BITSTRING[3]			
size	OCTETSTRING[1]		Present if code = 0	
addCIDpart1	BITSTRING[4]		Present if small CID and CID <>0; this shall be '1110'	
addCIDpart2	BITSTRING[4]		Present if small CID and CID <>0; This is the CID value	
largeCID	OCTETSTRING[12]		Present if large CID	
sequenceNumber	BITSTRING[8]			
Detailed Comments				

Type Name	FeedBackPacket2		
Encoding Variation			
Comments	For ROHC RTP		
Element Name	Type Definition	Field Encoding	Comments
feedBackType	BITSTRING[5]		'11110'B
code	BITSTRING[3]		
size	OCTETSTRING[1]		Present if code = 0
addCIDpart1	BITSTRING[4]		Present if small CID and CID <>0; this shall be '1110'
addCIDpart2	BITSTRING[4]		Present if small CID and CID <>0; This is the CID value
largeCID	OCTETSTRING[12]		Present if large CID
ackType	BITSTRING[2]		0 = ACK; 1 = NACK; 2 = STATIC- NACK; 3 = reserved
mode	BITSTRING[2]		
sequenceNumber	BITSTRING[12]		
optioncode	BITSTRING[4]		
optionLength	BITSTRING[4]		Only 0 and 1 are valid values
optionData	BITSTRING[8]		Present if optionLength = 1
Detailed Comments	See section 5.7.6.1 of RI optionalData	FC 3095 [54] for the c	oding of optionalLength and

7.3.7 Handling RLP for CS non-transparent data

After the establishment of a CS non-transparent data call during the test, the UE may attempt to initiate a Radio Link Protocol (RLP) connection or start XID exchange before the RLP connection if the UE has an RLP installed. The RLP frames exchanges shall be handled by the SS, in order to carry on the test. Otherwise, the UE may disconnect the CS call.

For the purpose of handling UE originated RLP frames the SS has installed an RLC codec. The RLP codec supports RLP Version 0,1, and 2, detects the version number at the first XID exchange. Without any prior XID exchange, the default version 0 applies. According to the RLP version number, the codec decodes / encodes U, S, I+S frames including header, information and FCS (Frame Check Sequence) fields. The RLP has a fixed bit frame size that is set to 576 bits. The SS RLP codec calculates the FCS value and inserts it in the FCS fields in each DL RLP frames. The FCS values in the UL frames are irrelevant in the TTCN. The I frames are decoded and acknowledged in TTCN, and the other RLP frames are decoded and discarded in the default behaviour trees in TTCN.

7.3.7.1 UTRAN cell

In a UTRAN cell, an RLP codec can be activated on the top of the SS TM RLC entity if the RLP protocol is applied to the UE. In addition of PCO TM, two new PCOs are defined. The PCO CRLP is used for the control and configuration of the RLP codec and the PCO RLP is used for the transferring of the RLP frames. PCO TM is not applied if PCO RLP is used in the test.

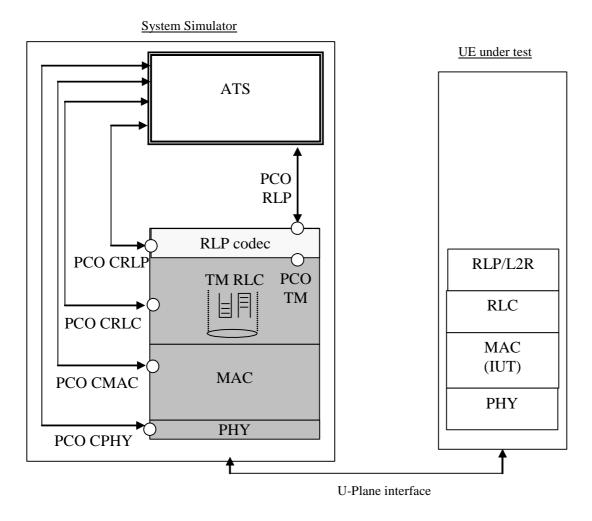


Figure 25: RLP codec model

An activate / deactivate command is required within the CRLP_Config_REQ to configure and activate the RLP codec and RLP PCO. The deactivate command switches off the RLP PCO and the SS discards all received RLP frames.

7.3.7.2 GERAN cell

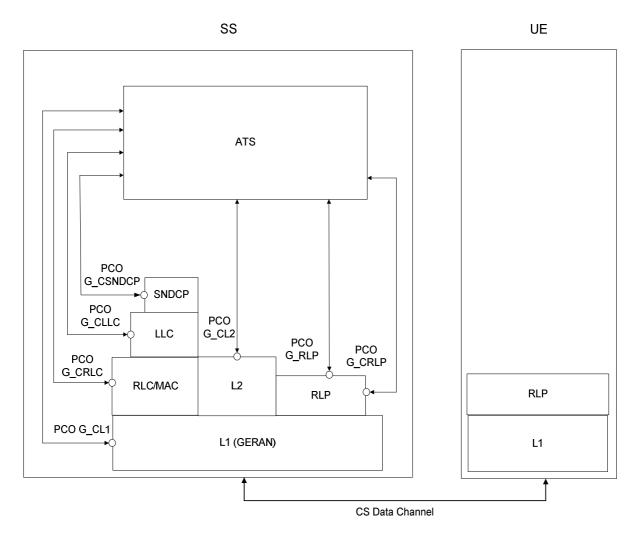


Figure 26: GERAN RLP codec modelAfter the establishment of a CS non-transparent data call in a GERAN cell during the test, the UE may attempt to initiate a Radio Link Protocol (RLP) connection or start XID exchange before the RLP connection if the UE has an RLP installed. The RLP frame exchanges shall be handled by the SS, in order to carry on the test. Otherwise, the UE may disconnect the CS call.

In a GERAN cell, an RLP codec can be activated on the traffic channel if the RLP protocol is applied to the UE. Two new PCOs are defined: G_CRLP is used for the control and configuration of the RLP codec and G_RLP is used for the transferring of the RLP frames in the GERAN cell.

For the purposes of interRAT handover testing, only the frame length of 576 bits is required. The 240 bits frame length and the REMAP function are not required.

ASP and PCO for control primitives

Table 35: PCO CRLP

PCO Definition		
PCO Name	CRLP	
PCO Type	CSAP	
Role	LT	
Comment	Control RLP codec.	

ASP Name CF		CRLP_Config_REQ			
PCO Type CSAF		AP			
Comments	The	ASP is used to activate of	P is used to activate or deactivate the RLP codec.		
Parameter Name		Parameter Type	Comments		
cellId		CellId	The cell which the RB identity belongs to		
rB_Identity		SS_RB_Identity	Identifier of the RB identity in the SS		
		INTEGER	0: activate 1: deactivate		
Detailed Comments					

ASP Name	CRL	CRLP_Config_CNF		
PCO Type	CSA	CSAP		
Comments		For RLP codec to confirm that a previous attempt to activate or deactivate has been successful.		
Parameter Name		Parameter Type	Comments	
Parameter Name cellid		Parameter Type CellId	Comments The cell which the RB identity belongs to	

PCO Definition		
PCO Name	G_CRLP	
PCO Type	G_CSAP	
Role	LT	
Comment	Control RLP codec in GERAN cell	

ASP Name	G_CF	G_CRLP_Config_REQ			
PCO Type	G_CS	G_CSAP			
Comments	The ASP is used to activate or deactivate the RLP agent in the GERAN cell and establish a pipe between the TTCN and the RLP agent on the TCH.				
Parameter Name		Parameter Type	Comments		
cellId	CellId		The cell which the RB identity belongs to		
channelld		PhysicalChId	Identifier of the TCH in the SS		
command		INTEGER 0: activate 1: deactivate			
Detailed Comments					

ASP Name	G_CRLP_Config_CNF		
PCO Type	G_CSAP		
Comments	For the RLP agent to confirm that a previous attempt to activate or deactivate has been successful.		
Parameter Name	Parameter Type	Comments	
Parameter Name cellid	Parameter Type CellId	Comments The cell which the TCH belongs to	

ASP and PCO for data transmission and reception

Table 36: PCO RLP declaration

PCO Type Definition			
PCO Name	RLP		
PCO Type	DSAP		
Role	LT		
Comment	Carry RLP frame.		

ASP Name	RLP	RLP_FrameReq			
PCO Type	DSA	DSAP			
Comments	The	ASP is used to request t	he transmission of the RLP frame.		
Parameter Name	Parameter Name		Comments		
cellId		CellId			
rB_Identity SS_RB_Ide		SS_RB_Identity	Identifier of the RB identity in the SS		
data		PDU	Meta type PDU		
Detailed Comments					

ASP Name	RLF	RLP_FrameInd			
PCO Type	DSA	\P			
Comments	The	The ASP is used to indicate the reception of an RLP frame.			
Parameter Name	Parameter Type		Comments		
cellid		CellId			
rB_Identity		SS_RB_Identity	y Identifier of the RB identity in the SS		
data		PDU	Meta type PDU		
Detailed Comments					

PCO Type Definition			
PCO Name	G_RLP		
PCO Type	G_DSAP		
Role	LT		
Comment	Carry RLP frame.		

ASP Name	G_R	G_RLP_FrameReq			
PCO Type	G_C	G_DSAP			
Comments	The	ASP is used to request t	he transmission of the RLP frame.		
Parameter Name	Parameter Name		Comments		
cellId		CellId			
channelld PhysicalChId		PhysicalChId	Identifier of the TCH in the SS		
data PDU		PDU	Meta type PDU		
Detailed Comments					

ASP Name	G_RLP_FrameInd			
PCO Type	G_C	G_DSAP		
Comments	The	ASP is used to indicate t	the reception of an RLP frame.	
Parameter Name		Parameter Type	Comments	
cellid		CellId		
channelld		PhysicalChId	Identifier of the TCH in the SS	
data		PDU Meta type PDU		
Detailed Comments				

8 Design Considerations

8.1 Channel mapping

Figure 27 shows the channel type mapping that is used for the configuration of the SS.

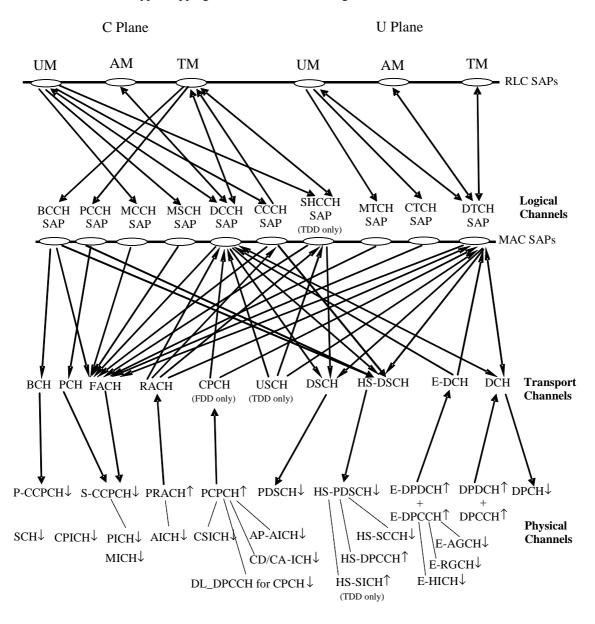


Figure 27: Channel mapping in SS-

8.2 Channel and RB identity

The TTCN addresses the TTCN tester by using a channel identifier:

- Either Physical channel identifier (PhyCh id); or
- Transport channel identifier (TrCh id); or
- Radio bearer identifier (RB id).

The selected channel identifier identifies uniquely:

- a channel within a cell;
- a total path of the address in the lower layers concerned.

Having taken out the cell id and PCO id (AM, UM and TM), a complete address, as RoutingInfo in the RRC ASP definition, should have at least five fields, CN domain id, RB id, LogCH id, TrCH id and PhyCH id. For simplified application of CHOICE of the routing information, a TTCN writer must carefully follow a number of rules assigning the channel identifiers.

General requirements:

- a structured scheme of planning all channel identifiers assigned;
- the scheme shall meet the requirements for all test cases in 3GPP TS 34.123-1 [1] including TDD channels;
- the scheme can apply to all radio bearer configurations in 3GPP TS 34.108 [3], clause 6.10;
- a clear multiplex mapping between a PhyCH id to TrCH ids and a TrCH id to LogCH ids, RB ids is needed.

Requirements on identification of RB in a test case:

- unique identification of the individual SRBs;
- unique identification of the individual sub-flows of a RABs in CS and PS domain.;
- an assigned RB id can represent UL and DL.

Requirements on identification of Logical Channel in a test case:

- it is an instance number of the individual logical channel; and
- uniquely identifies among all the Logical Channel mapped onto a Transport Channel.

Requirements on identification of Transport Channel in a test case:

- unique identification of the individual Transport Channel;
- assign different identities for UL and DL of a same Transport Channel type;
- the order of the Transport Channel id assigned in a cell shall follow the TFCS definitions in the 3GPP TS 34.108 [3], clause 6.10.

EXAMPLE: Transport Channel ids are assigned in the ascending order for (RABsubflow#1, RABsubflow#2, RABsubflow#3, 64kRAB, DCCH).

Requirements on identification of Physical Channel in a test case:

- unique identification of the individual Physical Channel;
- assign different identities for UL and DL of a same Physical Channel type;
- each S-CCPCH or PRACH has a unique identifier;
- for 2 Mbps PS data radio link (in case of demux of a Transport Channel), three DPCH are needed for high-speed data. A single Physical Channel id is assigned to a bundle of the three physical channels.

Table 37 shows which type of channel identity is chosen for the individual primitives. In table 37, the ASN.1 primitives use a CHOICE type for channel identity, while TTCN primitives use an explicit channel identity.

Table 37: Primitives and the associated channel identity type

Primitive name	Channel Identity	Releases
	ASN.1 Primitives	•
CPHY_AICH_AckModeSet_CNF	Physical Channel Identity	
CPHY_AICH_AckModeSet_REQ	Physical Channel Identity	
CPHY_Cell_Config_CNF	No Routing Info Field Present	
CPHY_Cell_Config_REQ	No Routing Info Field Present	
CPHY_Cell_Ini_CNF	No Routing Info Field Present	
CPHY_Cell_Ini_REQ	No Routing Info Field Present	
CPHY_Cell_TxPower_Modify_CNF	No Routing Info Field Present	
CPHY_Cell_TxPower_Modify_REQ	No Routing Info Field Present	
CPHY_Cell_Release_CNF	No Routing Info Field Present	
CPHY_Cell_Release_REQ	No Routing Info Field Present	
CPHY_DetectTFCI_CNF	Physical Channel Identity	
CPHY_DetectTFCI_IND	Physical Channel Identity	
CPHY_DetectTFCI_REQ	Physical Channel Identity	
CPHY_Frame_Number_CNF	Physical Channel Identity	
CPHY_Frame_Number_REQ	Physical Channel Identity	
CPHY_SFN_CNF	Physical Channel Identity	Rel-6 or later
CPHY_SFN_REQ	Physical Channel Identity	Rel-6 or later
CPHY_MBMS_MICH_q_CNF	Physical Channel Identity	Rel-6 or later
CPHY_MBMS_MICH_q_REQ	Physical Channel Identity	Rel-6 or later
CPHY_MBMS_NI_CNF	Physical Channel Identity	Rel-6 or later
CPHY MBMS NI REQ	Physical Channel Identity	Rel-6 or later
CPHY_Out_of_Sync_IND	Physical Channel Identity	1.01 0 01 10.01
CPHY_PRACH_Measurement_CNF	Physical Channel Identity	
CPHY_PRACH_Measurement_REQ	Physical Channel Identity	
CPHY_PRACH_Measurement_Report_IND	Physical Channel Identity	
CPHY_RL_Modify_CNF	Physical Channel Identity	
CPHY_RL_Modify_REQ	Physical Channel Identity	
CPHY_RL_Release_CNF	Physical Channel Identity	
CPHY_RL_Release_REQ	Physical Channel Identity	
CPHY_RL_Setup_CNF	Physical Channel Identity	
CPHY_RL_Setup_REQ	Physical Channel Identity	
CPHY_Sync_IND	Physical Channel Identity	
CPHY_TrCH_Config_CNF	Physical Channel Identity Physical Channel Identity	
CPHY_TrCH_Config_ERQ	Physical Channel Identity	
CPHY_TrCH_Release_CNF	Physical Channel Identity Physical Channel Identity	
CPHY_TrCH_Release_REQ	Physical Channel Identity Physical Channel Identity	
CPHY_HS_DPCCH_AckNack_CNF	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_AckNack_EQ	No Routing Info Field Present	Rel-5 or later
	-	
CPHY_HS_DPCCH_AckNack_IND CPHY_HS_DPCCH_CQI_CNF	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_CQI_CNP CPHY_HS_DPCCH_CQI_REQ	No Routing Info Field Present	Rel-5 or later
	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DPCCH_CQI_IND	No Routing Info Field Present	Rel-5 or later
CPHY_HS_DSCH_CRC_Mode_CNF	Physical Channel Identity	Rel-5 or later
CPHY_HS_DSCH_CRC_Mode_REQ	Physical Channel Identity	Rel-5 or later
CPHY_HS_SICH_AckNack_CNF	No Routing Info Field Present	Rel-5 or later
CDUV HS SICLI AskNowk DEC	No Pouting Info Field Procest	(LCR TDD)
CPHY_HS_SICH_AckNack_REQ	No Routing Info Field Present	Rel-5 or later
ODLIV HO CIOLI Asimisali IND	No Douting Info Field Process	(LCR TDD)
CPHY_HS_SICH_AckNack_IND	No Routing Info Field Present	Rel-5 or later
CPHY_HS_SICH_CQI_CNF	No Pouting Info Field Procest	(LCR TDD)
CFIII_NO_SICH_CQI_CINF	No Routing Info Field Present	Rel-5 or later (LCR TDD)
CDUV US SICH COL DEC	No Pouting Info Field Procest	
CPHY_HS_SICH_CQI_REQ	No Routing Info Field Present	Rel-5 or later (LCR TDD)
CDUV HE SICH COLIND	No Pouting Info Field Procest	
CPHY_HS_SICH_CQI_IND	No Routing Info Field Present	Rel-5 or later
CDLIV III. DowerMadit. CAIT	Physical Channel Ideality	(LCR TDD)
CPHY_UL_PowerModify_CNF	Physical Channel Identity	
CPHY_UL_PowerModify_REQ	Physical Channel Identity	
CMAC_BMC_Scheduling_CNF	Physical Channel Identity	
CMAC_BMC_Scheduling_REQ	Physical Channel Identity	
CMAC_Ciphering_Activate_CNF	Physical Channel Identity of DPCH	
CMAC_Ciphering_Activate_REQ	Physical Channel Identity of DPCH	

OMAGO Confin ONE	Dharias I Ohanas I Islantita	1
CMAC_Config_CNF	Physical Channel Identity	
CMAC_Config_REQ	Physical Channel Identity	
CMAC_FACH_MeasOccas_CNF	Physical Channel Identity	
CMAC_FACH_MeasOccas_REQ	Physical Channel Identity	
CMAC_PAGING_Config_CNF	Physical Channel Identity	
CMAC_PAGING_Config_REQ	Physical Channel Identity	
CMAC_Restriction_CNF	Physical Channel Identity	
CMAC_Restriction_REQ	Physical Channel Identity	
CMAC_SecurityMode_Config_CNF	No Routing Info Field Present (applies to all RB lds)	
CMAC_SecurityMode_Config_REQ	No Routing Info Field Present (applies to all RB lds)	
CMAC_SequenceNumber_CNF	Physical Channel Identity	
CMAC_SequenceNumber_REQ	Physical Channel Identity	
CMAC_SYSINFO_Config_CNF	RB Identity	
CMAC_SYSINFO_Config_REQ	RB Identity	
CMAC_MAChs_MACehs_Reset_CNF	No Routing Info Field Present	Rel-5 or later
CMAC_MAChs_MACehs _Reset_REQ	No Routing Info Field Present	Rel-5 or later
CMAC_MAChs_MACehs	No Routing Info Field Present	Rel-5 or later
_HARQprocAsign_CNF	The reading into ricia riesent	The or inter
CMAC_MAChs_MACehs	No Routing Info Field Present	Rel-5 or later
_HARQprocAsign_REQ	The reading fine Flora Floration	T. C. O OI IAIGI
CMAC_MAChs_MACehs	No Routing Info Field Present	Rel-5 or later
	INO MOULING HILD FIELD FIELDELIK	וייבויט טו ומופו
_TFRCconfigure_CNF CMAC_MAChs_MACehs	No Pouting Info Field Present	Rel-5 or later
_ = =	No Routing Info Field Present	rei-o di later
_TFRCconfigure_REQ	No Douting Info Field Procest	Dol 7 andstan
CMAC _MACehs_HS_SCCH_OrdersCNF	No Routing Info Field Present	Rel-7 or later
CMAC _MACehs_HS_SCCH_OrdersREQ	No Routing Info Field Present	Rel-7 or later
CMAC_MACe_Config_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_Config_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_NodeB_CellMapping_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_NodeB_CellMapping_REQ	Node B Identity	Rel-6 or later
CMAC_MACes_Config_CNF	No Routing Info Field Present	Rel-6 or later
CMAC_MACes_Config_REQ	No Routing Info Field Present	Rel-6 or later
CMAC_MACe_AG_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_AG_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_AckNack_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_AckNack_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_RG_CNF	Node B Identity	Rel-6 or later
CMAC_MACe_RG_REQ	Node B Identity	Rel-6 or later
CMAC_MACe_Bind_Grant_Tx_CNF	Physical Channel Identity	Rel-7 or later
CMAC_MACe_Bind_Grant_Tx_REQ	Physical Channel Identity	Rel-7 or later
CMAC MACE E TFC Restriction CNF	Node B Identity	Rel-6 or later
CMAC_MACe_E_TFC_Restriction_REQ	Node B Identity	Rel-6 or later
CMAC_MACes_SI_IND	No Routing Info Field Present	Rel-6 or later
CMAC_MACes_SI_IND CMAC_MACes_SI_Config_CNF	No Routing Info Field Present	
		Rel-6 or later
CMAC_MBMS_ConfigInfo_CNF	Physical Channel Identity	Rel-6 or later
CMAC_MBMS_ConfigInfo_REQ	Physical Channel Identity	Rel-6 or later
CRLC_Bind_TestData_TTI_CNF	No Routing Info Field Present	
CRLC_Bind_TestData_TTI_REQ	No Routing Info Field Present	
CRLC_Ciphering_Activate_CNF	No Routing Info Field Present (applies to all RB Ids)	
CRLC_Ciphering_Activate_REQ	No Routing Info Field Present (applies to all RB Ids)	1
CRLC_MAC_I_Mode_CNF	RB Identity	
CRLC_MAC_I_Mode_REQ	RB Identity	
CRLC_Config_CNF	RB Identity	
CRLC_Config_REQ	RB Identity	
CRLC_Integrity_Activate_CNF	No Routing Info Field Present (applies to all RB lds)	
CRLC_Integrity_Activate_REQ	No Routing Info Field Present (applies to all RB lds)	
CRLC_Integrity_Failure_IND	RB Identity	
CRLC_NotAckNxtRxSDU_CNF	RB Identity	
CRLC_NotAckNxtRxSDU_REQ	RB Identity	
CRLC_ProhibitRLC_Ack_CNF	RB Identity	
CRLC_ProhibitRLC_Ack_REQ	RB Identity	
CRLC_Resume_CNF	RB Identity (applies to all suspended RB Ids)	
CRLC_Resume_REQ	RB Identity (applies to all suspended RB Ids)	
CRLC_RRC_MessageSN_CNF	RB Identity	
CRLC_RRC_MessageSN_REQ	RB Identity	
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CRLC_SecurityMode_Config_CNF	No Routing Info Field Present (applies to all RB Ids)	
CRLC_SecurityMode_Config_REQ	No Routing Info Field Present (applies to all RB Ids)	
CRLC SendContinuousData CNF	No Routing Info Field Present	
CRLC SendContinuousData_REQ	No Routing Info Field Present	
CRLC_SendTestDataInOneMAC_Hs_PDU	RB Identity	Rel-5 or later
CNF		
CRLC_SendTestDataInOneMAC_Hs_PDU	RB Identity	Rel-5 or later
_REQ		
CRLC_SequenceNumber_CNF	RB Identity	
CRLC_SequenceNumber_REQ	RB Identity	
CRLC_SetRRC_MessageSN_CNF	RB Identity	
CRLC_SetRRC_MessageSN_REQ	RB Identity	
CRLC_Set_Count_I_CNF	RB Identity	
CRLC_Set_Count_I_REQ	RB Identity	
CRLC_Status_Ind	RB Identity	
CRLC_Suspend_CNF	RB Identity	
CRLC_Suspend_REQ	RB Identity	
CRLC_MTCH_Scheduling_REQ	RB Identity	Rel-6 or later
CRLC_MTCH_Scheduling_CNF	RB Identity	Rel-6 or later
CBMC_Config_CNF	RB Identity	
CBMC_Config_REQ	RB Identity	
RLC_AM_DATA_CNF	RB Identity	
RLC_AM_DATA_IND	RB Identity	
RLC_AM_DATA_REQ	RB Identity	
RLC_TR_DATA_IND	RB Identity	
RLC_TR_DATA_REQ	RB Identity	
RLC_UM_ACCESSinfo_REQ	RB Identity	Rel-6 or later
RLC_UM_CriticalMCCHMsg_REQ	RB Identity	Rel-6 or later
RLC_UM_DATA_IND	RB Identity	
RLC_UM_DATA_REQ	RB Identity	
RLC_UM_MSCH_Msg_REQ	RB Identity	Rel-6 or later
RLC_TR_MACesDATA_IND	RB Identity	Rel-6 or later
	TTCN Primitives	
RLC_AM_TestDataInd	RB Identity	
RLC_AM_TestDataReq	RB Identity	
RLC_TR_TestDataInd	RB Identity	
RLC_TR_TestDataReq	RB Identity	
RLC_UM_TestDataInd	RB Identity	
RLC_UM_TestDataReq	RB Identity	
BMC_DataReq	RB Identity	

8.2.1 Physical channels

Table 38: Physical channel identities

Type	Min. No.	Current	Identities	Direction	Comment
		Config.	(value assigned)		
P-CCPCH	1	1	tsc_P_CCPCH (4)	downlink	Primary Common Control Physical Channel. For Broadcasting System Information messages, using the Primary Scrambling Code for the Cell.
P-CPICH	1	1	tsc_P_CPICH (0)	downlink	Primary Common Pilot Channel using the Primary Scrambling Code for the Cell.
S-CPICH	1	1	tsc_S_CPICH (3)	downlink	Secondary Common Pilot Channel, used as the phase reference for some RF tests.
P-SCH	1	1	tsc_P_SCH (1)	downlink	Primary Synchronization Channel
S-SCH	1	1	tsc_S_SCH (2)	downlink	Secondary Synchronization Channel
S-CCPCH	3	1	tsc_S_CCPCH1 (5) tsc_S_CCPCH2 (10) tsc_S_CCPCH3 (13)	downlink	Secondary Common Control Physical Channel.

Туре	Min. No.	Current Config.	Identities (value assigned)	Direction	Comment
PICH	1	1	tsc_PICH1 (6) tsc_PICH2 (11)	downlink	To identify whether the UE should access the PCCH for Paging Messages.
AICH	1	1	tsc_AICH1 (7) tsc_AICH2 (12)	downlink	General Acquisition Indicator Channel, can be used for: - Acquisition Indicator Channel, for PRACH - Access Preamble Acquisition Indicator Channel (AP-ICH), for PCPCH - Collision-Detection/Channel-Assignment Indicator Channel (CD/CA-ICH), for PCPCH
DPCH	3	1	tsc_DL_DPCH1 (26) tsc_DL_DPCH2 (27)	downlink	Downlink Physical Data Channel. Layer 1 signalling is transmitted only on the first DPCH. This number is for the First Cell. Additional Cells may define a lower number which should be at least 1.
DPDCH	1	1	tsc_UL_DPCH1 (20) tsc_UL_DPCH2 (21)	uplink	Uplink Dedicated Physical Channel. A single DPCCH associated with all the DPDCHs used for Layer 1 signalling.
PRACH	2	1	tsc_PRACH1 (8) tsc_PRACH2 (9)	uplink	Physical Random Access Channel.
PCPCH	1	FFS	, ,	uplink	Physical Common Packet Channel.
CSICH	1	FFS		downlink	CPCH Status Indicator Channel
HS-PDSCH	1		tsc_HSPDSCH(18)	downlink	Rel-5 or later High speed physical downlink shared channel
E-AGCH	1		tsc_E_AGCH (14)	downlink	Rel-6 or later E-DCH Absolute Grant Channel
E-HICH	1		tsc_E_HICH (15)	downlink	Rel-6 or later E-DCH HARQ Acknowledgement Indicator Channel
E-RGCH	1		tsc_E_RGCH (16)	downlink	Rel-6 or later E-DCH Relative Grant Channel
E-DPDCH	1		tsc_E_DPCH (22)	uplink	Rel-6 or later Enhanced Dedicated Physical Channel
F-DPCH	1		tsc_F_DPCH (28)	downlink	Rel-6 or later Fractional Dedicated Physical Channel
MICH	1		tsc_MICH (29)	downlink	Rel-6 or later MBMS notification Indicator Channel

The Physical Channel values 20 to 25 are assigned to uplink DPCHs and the values 26 to 31 are assigned to downlink DPCHs/FDPCHs.

8.2.2 Transport channels

Table 39: Transport channel identities

Туре	Min. No.	Current Config.	Identities	Direction	Comments
			(value assigned)		
BCH	1	1	tsc_BCH1 (11)	downlink	
FACH	1	1	tsc_FACH1 (13)	downlink	
			tsc_FACH2 (14)		
			tsc_FACH3 (16)		
			tsc_FACH4 (17)		
			tsc_FACH5 (23)		
PCH	1	1	tsc_PCH1 (12)	downlink	
			tsc_PCH2 (30)		
DCH	n	4	tsc_UL_DCH1 (1)	uplink	tsc_UL_DCH1 for RAB1-1 or RAB1,
			tsc_UL_DCH2 (2)		tsc_UL_DCH2 for RAB1-2 or RAB2,
			tsc_UL_DCH3 (3)		tsc_UL_DCH3 for RAB1-3,
			tsc_UL_DCH4 (4)		tsc_UL_DCH4 RAB2,
			tsc_UL_DCH5 (5)		tsc_UL_DCH5 for SRB/RAB3,
			tsc_UL_DCH6 (21)		tsc_UL_DCH6 for SRB.
DCH	n	4	tsc_DL_DCH1 (6)	downlink	tsc_DL_DCH1 for RAB1-1 or RAB1,
			tsc_DL_DCH2 (7)		tsc_DL_DCH2 for RAB1-2 or RAB2,
			tsc_DL_DCH3 (8)		tsc_DL_DCH3 for RAB1-3,
			tsc_DL_DCH4 (9)		tsc_DL_DCH4 for RAB2,
			tsc_DL_DCH5 (10)		tsc_DL_DCH5 for SRB,
			tsc_DL_DCH6 (22)		tsc_DL_DCH6 for SRB.
USCH	1	N/A	tsc_USCH1(20)	uplink	TDD only
DSCH	1	N/A	tsc_DSCH (19)	downlink	
RACH	2	1	tsc_RACH1 (15)	uplink	
			tsc_RACH2 (31)		
CPCH	1	N/A	tsc_CPCH1(32)	uplink	
FAUSCH	N/A	N/A	tsc_FAUSCH1(18)	uplink	Not in Release 99
HSDSCH	1	1	N/A	downlink	Rel-5 or later
E-DCH	1	1	N/A	uplink	Rel-6 or later

8.2.2.1 Support of Default Configurations

In test cases using default configurations according to 3GPP TS 25.331 [21], clause 13.7, the configuration of the system simulator follows the same parameter values as defined for the UE side with the following exceptions:

- UL/DL transport channel ids;
- E-DCH MAC-d flow id / HS-DSCH MAC-d flow id.

As the transport channel identities and the MAC-d flow identities have the local significance, the TTCN implementations follow the test model.

8.2.3 Logical Channels

Table 40 shows the logical channels identities.

Table 40: Logical channel identities

Туре	Min. No.	Current Config.	Identities	Direction	Comments
			(value assigned)		
BCCH_BCH	1	1	tsc_BCCH1 (1)	downlink	
BCCH_FACH	1	1	tsc_BCCH6 (6)	downlink	
CCCH	1	1	tsc_DL_CCCH5 (5)	downlink	
CCCH	1	2	tsc_UL_CCCH5 (5)	uplink	
			tsc_UL_CCCH6 (6)	'	
DCCH	4	4	tsc_DL_DCCH1 (1)	downlink	tsc_DL_DCCH1 for SRB1,
			tsc_DL_DCCH2 (2)		tsc_DL_DCCH2 for SRB2,
			tsc_DL_DCCH3 (3)		tsc_DL_DCCH3 for SRB3,
			tsc_DL_DCCH4 (4)		tsc_DL_DCCH4 for SRB4,
			tsc_DL_DCCH5 (5)		tsc_DL_DCCH5 for SRB5
DCCH	4	4	tsc_UL_DCCH1 (1)	uplink	tsc_UL_DCCH1 for SRB1,
			tsc_UL_DCCH2 (2)	1	tsc_UL_DCCH2 for SRB2,
			tsc_UL_DCCH3 (3)		tsc_UL_DCCH3 for SRB3,
			tsc_UL_DCCH4 (4)		tsc_UL_DCCH4 for SRB4
PCCH	1	2	tsc_PCCH1 (1)	downlink	
			tsc_PCCH2 (2)		
DTCH	n	4	tsc_UL_DTCH1 (7)	uplink	tsc_UL_DTCH1 for RAB1-1 or RAB 1,
			tsc_UL_DTCH2 (8)		tsc_UL_DTCH2 for RAB1-2 or RAB 2,
			tsc_UL_DTCH3 (9)		tsc_UL_DTCH3 for RAB1-3'
			tsc_UL_DTCH4 (10)		tsc_UL_DTCH4 for RAB2,
			tsc_UL_DTCH5 (13)		tsc_UL_DTCH5 for RAB3
DTCH	n	4	tsc_DL_DTCH1 (7)	downlink	tsc_DL_DTCH1for RAB1-1 or RAB 1,
			tsc_DL_DTCH2 (8)		tsc_DL_DTCH2 for RAB1-2 or RAB 2,
			tsc_DL_DTCH3 (9)		tsc_DL_DTCH3 for RAB-3,
			tsc_DL_DTCH4 (10)		tsc_DL_DTCH4 for RAB2
CTCH	1	2	tsc_CTCH1 (11)	downlink	
			tsc_CTCH2 (12)		
MTCH	1	4	tsc_MTCH1(1)	downlink	MBMS_LogicalChIdentity
			tsc_MTCH2(2)		
			tsc_MTCH3(3)		
			tsc_MTCH4(4)		
MCCH	1	1	tsc_MCCH1(1)	downlink	One and only one for each cell
MSCH	0	1	tsc_MSCH1(1)	downlink	

8.2.4 Radio bearers

Identities (value assigned)	Direction	Туре	RLC mode	Service domain	Comments
tsc_RB_BCCH (-1)	downlink		TM	NA	BCCH-BCH
tsc_RB_PCCH (-2)	downlink		TM	NA	PCCH PCH
tsc_RB_BCCH_FACH (-3)	downlink		TM	NA	BCCH FACH
tsc_RB_2ndPCCH (-4)	downlink		TM	NA	Second PCCH PCH SCPCCH
tsc_RB_2ndCCCH (-5)	uplink		TM	NA	Second CCCH RACH PRACH
tsc_RB_MTCH_RLC_TR (-6)	downlink		TM	PS	Rel-6 or later
					For TM MTCH RLC tests
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 LIs
tsc_RB_UM_15_RLC (-11)	uplink	RAB	TM	CS	For UM RLC tests using 15 bit LIs
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 mapped to FACH

Identities	Direction	Туре	RLC	Service	Comments
(value assigned)			mode	domain	
tsc_RB_DCCH_FACH_MAC (-14)	uplink	SRB3	TM	CS	For MAC tests using DCCH mapped to FACH
tsc_RB_DCCH_DCH_MAC (-15)	downlink	SRB3	TM	CS	For MAC tests using DCCH mapped to DCH
tsc_RB_DCCH_FACH_MAC (-15)	uplink	SRB3	TM	CS	For MAC tests using DCCH mapped to DCH
tsc_RB3_DCCH_RRC_(-16)	uplink	SRB3	AM	CS or PS	For RRC test cases to route UL NAS messages
tsc_RB_CCCH_FACH_MAC (-18)	downlink	SRB0	TM	CS or PS	For MAC test using downlink SRB0 on TM
tsc_RB_BCCH_FACH_RAB (-19)	downlink		TM	NA	BCCH FACH
tsc_RB_DTCH_E_DCH_MAC(-20)	uplink	RAB	TM	PS	For MAC_es_e tests
tsc_RB_DTCH_E_DCH_MAC1(-21)	uplink	RAB	TM	PS	For MAC_es_e tests
tsc_RB_DTCH_E_DCH_MAC2(-22)	uplink	RAB	TM	PS	For MAC_es_e tests
tsc_RB_MAC_HS(-25)	uplink	RAB	TM	PS	For MAC_hs/ehs tests
tsc_RB_MAC_HS(-25)	downlink	RAB	TM	PS	For MAC_hs/ehs tests
tsc_RB_MAC_ehs_26 (-26)	uplink	RAB	TM	PS	For MAC_ehs tests
tsc_RB_MAC_ehs_26 (-26)	downlink	RAB	TM	PS	For MAC_ehs tests
tsc_RB_MAC_ehs_27(-27)	uplink	RAB	TM	PS	For MAC_ehs tests
tsc_RB_MAC_ehs_27(-27)	downlink	RAB	TM	PS	For MAC_ehs tests
tsc_RB0 (0)	uplink	SRB0	TM	CS or PS	The service domain for which the 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_RB3 (3)	uplink	SRB4	AM	CS or PS	DCCH
tsc_RB4 (4)	downlink	SRB4	AM	CS or PS	DCCH
tsc_RB5 (5)	uplink	SKD4	TM	C3 01 F3	DCCH
tsc_RB5 (5)	downlink		TM		DCCH
tsc_RB_MCCH(8)	downlink	SRB	UM	PS	Rei-6 or later
tsc_RB_MCCH_RLC_TR(-8)	downlink	SRB	TM	PS	Rel-6 or later
tsc_RB_MSCH(9)	downlink	SRB	UM	PS	Rel-6 or later
tsc_RB10 (10)	uplink	RAB#1-1	TM	CS	or RAB1
tsc_RB10 (10)	downlink	RAB#1-1	TM	CS	or RAB1
tsc_RB10 (10)	uplink	RAB#1-1	TM	CS	or RAB2
tsc_RB11 (11)	downlink	RAB#1-2	TM	CS	or RAB2
tsc_RB12 (12)	uplink	RAB#1-3	TM	CS	OT TABLE
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_RB_MTCH1(14)	downlink	RAB	UM	PS	Rel-6 or later, media contents
tsc_RB_MTCH2(15)	downlink	RAB	UM	PS	Rel-6 or later, media contents
tsc_RB_MTCH3(16)	downlink	RAB	UM	PS	Rel-6 or later, media contents
tsc_RB17 (17)	uplink	RAB#2	AM	PS PS	Rel-5 or later, media contents Rel-5 or later, 2nd AM RAB for HS
tsc_RB17 (17)	downlink	RAB#2	AM	PS	Rel-5 or later, 2nd AM RAB for HS
tsc_RB20 (20)	uplink	RAB#2 RAB#1	AM	PS	TOPO OF IGIES, ZITU AW NAD TOF ITS
tsc_RB20 (20)	downlink	RAB#1	AM	PS	
tsc_RB20 (20)	uplink	RAB#1	UM	PS	
tsc_RB21 (21)	downlink	RAB#2	UM	PS PS	
, ,	uplink	RAB#2	AM	PS PS	
tsc_RB22 (22)	downlink	RAB#2 RAB#2	AM	PS PS	
tsc_RB22 (22)		RAB#2 RAB#2			2nd AM BAR for BS
tsc_RB23 (23)	uplink downlink		AM	PS	2nd AM RAB for PS
tsc_RB23 (23)		RAB#2	AM	PS	2nd AM RAB for PS
tsc_RB24 (24)	uplink	RAB#2	AM	PS	2nd AM RAB for PS 2nd AM RAB for PS
tsc_RB24 (24)	downlink	RAB#2	AM	PS	ZIIU AIVI NAD IÜI FO

Identities (value assigned)	Direction	Туре	RLC mode	Service domain	Comments
tsc_RB25 (25)	uplink	RAB#1	AM	PS	Rel-5 or later:
					DTCH on DPCH associated HS-
					DSCH
					Rel-6 or later:
					DTCH on E-DCH
tsc_RB25 (25)	downlink	RAB#1	AM	PS	Rel-5 or later
					DTCH on HS-DSCH
tsc_RB26 (26)	uplink	RAB#1	UM	PS	Rel-5 or later
tsc_RB26 (26)	downlink	RAB#1	UM	PS	Rel-5 or later
tsc_RB27 (27)	uplink	RAB#2	UM	PS	Rel-5 or later
tsc_RB27 (27)	downlink	RAB#2	UM	PS	Rel-5 or later
tsc_RB28 (28)	uplink	RAB#3	AM	PS	Rel-5 or later
tsc_RB28 (28)	downlink	RAB#3	AM	PS	Rel-5 or later
tsc_RB29 (29)	downlink	SRB0	AM	PS	RB Id for Radio bearer that carries
					the 2nd CCCH in the DL
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 15 to 29 are assigned to the PS RAB sub-flows. The value 30 is assigned to the CBSMS/BMC service.

Table 41: RB identities mapping between 34.123-1 & 34.123-3

RAB Combinations	34.123-1	34.123-3
Single CS RAB	RB5	tsc_RB10
	RB6	tsc_RB11
	RB7	tsc_RB12
Single PS RAB	RB5	tsc_RB20
	RB7	tsc_RB20
	RB8	tsc_RB20
CS+PS Multi RABs	RB5	tsc_RB10
	RB6	tsc_RB11, tsc_RB20
	RB7	tsc_RB12
	RB8	tsc_RB20
	RB9	tsc_RB22
CS+CS Multi RABs	RB5	tsc_RB10
	RB6	tsc_RB11
	RB7	tsc_RB12
	RB8	tsc_RB13
PS+PS Multi RABs	RB5	tsc_RB20
	RB6	tsc_RB22
	RB7	tsc_RB20
	RB8	tsc_RB24
Single PS (HSDPA) RAB	RB5	tsc_RB25
PS+PS Multi (HSDPA) RAB	RB5	tsc_RB26
	RB6	tsc_RB27
	RB7	tsc_RB25
	RB8	tsc_RB28
	RB9	tsc_RB17
Single PS (HSUPA) RAB	RB5	tsc_RB25
CS + PS Multi (HSDPA/HSUPA)	RB5	tsc_RB10
RAB	RB6	tsc_RB11, tsc_RB25
	RB7	tsc_RB12
	RB8	tsc_RB25
	RB9	tsc_RB17

8.2.5 Scrambling and channelization codes

Table 42 shows the primary/secondary scrambling codes and the channelization codes for downlink channels.

Table 42: Primary/secondary scrambling codes and channelization codes for downlink channels

Туре	Identities (value assigned)	Primary scrambling code	Secondary scrambling code	Channelization Code
P-CCPCH	tsc_P_CCPCH (4)	(px_PriScrmCode+ 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	tsc_P_CCPCH_ChC (256:1)
P-CPICH	tsc_P_CPICH (0)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	tsc_P_CPICH_ChC (256:0)
S-CCPCH	tsc_S_CCPCH1 (5)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA (carrying PCH)	tsc_S_CCPCH1_ChC (64:1 or 4 or 6 depending on the channels configuration) tsc_S_CCPCH1_ChC_MBMS (64:1) for MBMS testing
	tsc_S_CCPCH2 (10)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA (carrying PCH)	tsc_S_CCPCH2_ChC (64:1) tsc_S_CCPCH2_ChC_MBMS (256:9) for MBMS testing
	tsc_S_CCPCH3 (13)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA (carrying PCH)	tsc_S_CCPCH3_ChC (64:2) tsc_S_CCPCH3_ChC_MBMS (8:1 or 16:1 or 32:2 depending on the channels configuration) for MBMS testing
PICH	tsc_PICH1 (6)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	tsc_PICH1_ChC (256:2)
	tsc_PICH2 (11)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	tsc_PICH2_ChC (256:12)
AICH	tsc_AICH1 (7)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	tsc_AlCH1_ChC (256:3)
	tsc_AICH2 (12)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	tsc_AlCH2_ChC (256:13)
DPCH	tsc_DL_DPCH1 (26)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	tsc_DL_DPCH1_2ndScrC (1) This value is related to the primary scrambling code of the cell	Depending on the configuration: tsc_DL_DPCH1_ChC_SRB (128:9) tsc_DL_DPCH1_ChC_Speech (128:0) tsc_DL_DPCH1_ChC_Streaming (32:0) tsc_DL_DPCH1_ChC_64k_CS (32:0) tsc_DL_DPCH1_ChC_64k_PS (32:0)
	tsc_DL_DPCH2 (27)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	tsc_DL_DPCH2_2ndScrC (1) This value is related to the primary scrambling code of the cell	Depending on the configuration: tsc_DL_DPCH2_ChC_SRB (256:1) tsc_DL_DPCH2_ChC_Speech (128:1) tsc_DL_DPCH2_ChC_Streaming (32:1) tsc_DL_DPCH2_ChC_64k_CS (32:1) tsc_DL_DPCH2_ChC_64k_PS (32:1)
HS- PDSCH	tsc_HSPDSCH(18)	Same as HS-SCCH	Same as HS-SCCH	Rel-5 or later SF= 16 Number of codes depending on the configuration, at most 15 codes

HS-SCCH	NA	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	-	Rel-5 or later tsc_HS_SCCH_ChC (128:7)
E-AGCH	tsc_E_AGCH (14)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
E-HICH	tsc_E_HICH (15)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
E-RGCH	tsc_E_RGCH (16)	(px_PriScrmCode + 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
F-DPCH	tsc_F_DPCH (28)	(px_PriScrmCode + 50 × (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 × (cell No -21)) mod 512 for MBMS testing	NA	Rel-6 or later
MICH	tsc_MICH (29)	(px_PriScrmCode+ 50 x (cell No -1)) mod 512, (px_PriScrmCode+20+ 50 x (cell No -21)) mod 512 for MBMS testing	NA	tsc_MICH_ChC (256:8)

Table 43 shows the scrambling codes, the signatures and the spreading factors for uplink channels.

Table 43: Scrambling codes, signatures and spreading factor for uplink channels

Туре	Identities (value assigned)	Scrambling code	Signature	Spreading factor
DPDCH	tsc_UL_DPCH1 (20)	(px_UL_ScramblingCode + 1000*(cell No -1)) MOD 16777216	NA	If only one DPDCH and depending on the configuration tsc_UL_DPDCH_SF_SRB (64) tsc_UL_DPDCH_SF_Speech (64) tsc_UL_DPDCH_SF_Streaming (16) tsc_UL_DPDCH_SF_64k_CS (16) tsc_UL_DPDCH_SF_64k_PS (16) If more than one DPDCH tsc_UL_DPDCH_SF_4 (4:1)
	tsc_UL_DPCH2 (21)	(px_UL_ScramblingCode + 1 000 × (cell No -1)) MOD 16 777 216	NA	If only one DPDCH and depending on the configuration tsc_UL_DPDCH_SF_SRB (64) tsc_UL_DPDCH_SF_Speech (64) tsc_UL_DPDCH_SF_Streaming (16) tsc_UL_DPDCH_SF_64k_CS (16) tsc_UL_DPDCH_SF_64k_PS (16) If more than one DPDCH tsc_UL_DPDCH_SF_4 (4:1)
PRACH	tsc_PRACH1 (8)	tsc_PRACH1_ScrC (0)	tsc_PRACH1_Signatures ('0000000011111111'B)	tsc_PRACH1_SF (64)
	tsc_PRACH2 (9)	tsc_PRACH2_ScrC (1)	tsc_PRACH2_Signatures ('00000000111111111'B)	tsc_PRACH2_SF (64)
HS- DPCCH	NA	Same as DPDCH	NA	Rel-5 or later Depending on the number of DPDCHs: If only one DPDCH: C _{256,64} ; If 2 or 4 or 6 DPDCHs: C _{256,1} ; If 3 or 5 DPDCHs: C _{256,32} .
E-DPCH	tsc_E_DPCH (22)	Same as DPDCH	NA	Rel-6 or later

8.2.6 MAC-d

MAC-d and the served RLC are cell-independent and are configured by using the cell-id = -1. During reconfigurations, cell changes and state transitions, the relevant counters in the RLC and MAC-d are maintained.

For the active set updating, the DL DCH with the same channel Id in the different cells are implicitly connected to form the DL multiple paths.

8.2.6.1 MAC-d configuration examples

The following example shows how the MAC and RLC ASP are used to configure different configurations.

The 1st parameter in ASP represents the cell identity; p_CellId corresponds to the current cell identity, tsc CellDedicated corresponds to the cell independent (-1). The 2nd parameter represents the channel Id, this parameter is not needed in the CRLC ASP).

1. Cell_DCH_StandAloneSRB: configuration of DL/UL-DPCH1

```
CPHY!CPHY RL Setup REQ
CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_TrCH_Config_REQ
 CPHY?CPHY_TrCH_Config_CNF (p_CellId, tsc_DL_DPCH1)
CMAC ! CMAC_Config_REQ CMAC ? CMAC_Config_CNF
 CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CPHY?CPHY_RL_Setup_CNF ( p_CellId, tsc_UL_DPCH1) -- Cell concerned
CPHY!CPHY_TrCH_Config_REQ ( p_CellId, tsc_UL_DPCH1 ) -- Cell concerned
CPHY?CPHY_TrCH_Config_CNF ( p_CellId, tsc_UL_DPCH1 ) -- Cell concerned
CMAC ! CMAC_Config_REQ ( tsc_CellDedicated, tsc_UL_DPCH1 ) -- Cell independent (-1)
CMAC ? CMAC_Config_CNF ( tsc_CellDedicated, tsc_UL_DPCH1 ) -- Cell independent (-1)
CRLC ! CRLC_Config_REQ ( tsc_CellDedicated ) -- Cell independent (-1)
CRLC ? CRLC_Config_CNF ( tsc_CellDedicated ) -- Cell independent (-1)
```

2. Cell_FACH: configuration of S-CCPCH1

```
( p_CellId, tsc_S_CCPCH1) -- Cell concerned ( p_CellId, tsc_S_CCPCH1) -- Cell concerned t ( p_CellId, tsc_S_CCPCH1) -- Cell concerned t ( p_CellId, tsc_S_CCPCH1) -- Cell concerned ( p_CellId, tsc_PICH1 -- Cell concerned ( p_CellId, tsc_PICH1) -- Cell concerned ( tsc_CellDedicated ) -- Cell independent ( tsc_CellDedicated ) -- Cell independent
CPHY!CPHY RL Setup REQ
CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_TrCH_Config_REQ
CPHY ? CPHY_TrCH_Config_CNF
CMAC ! CMAC_Config_REQ
CMAC ? CMAC_Config_CNF
CMAC ? CMAC_CONFIG_CNF
CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CRLC ! CRLC_Config_REQ
CRLC ? CRLC_Config_CNF
                                                                                                                                                                                                                    -- Cell independent (-1)
                                                                                                                                                                                                                     -- Cell independent (-1)
```

3. Cell_FACH: configuration of P-CCPCH

```
( p_CellId, tsc_P_CPICH ) -- Cell concerned ( p_CellId, tsc_P_CPICH ) -- Cell concerned ( p_CellId, tsc_P_SCH) -- Cell concerned ( p_CellId, tsc_S_SCH) -- Cell concerned ( p_CellId, tsc_P_CCPCH) -- Cell concerned ( p_CellId)
CPHY!CPHY RL Setup REQ
CPHY?CPHY RL Setup CNF
CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CPHY!CPHY_RL_Setup_REQ
CPHY?CPHY_RL_Setup_CNF
CPHY:CPHY_TrCH_Config_REQ
CPHY:CPHY_TrCH_Config_CNF
CMAC!CMAC_Config_REQ
CMAC?CMAC_Config_CNF
CRLC! CRLC_Config_REQ
CRLC? CRLC_Config_CNF
                                                                                                     ( p_CellId)
                                                                                                                                                                                                                       -- Cell concerned
                                                                                                     ( p_CellId)
                                                                                                                                                                                                                       -- Cell concerned
```

8.2.7 Configuration of compressed mode

8.2.7.1 UE Side

Two IE are available for the configuration of the compressed mode for the UE.

- a) DPCH_CompressedModeInfo.
- b) DPCH CompressedModeStatusInfo.

Compressed mode initiation at UE side can be divided into 2 steps:

- a) Downloading compressed mode parameters.
- b) Activating the compressed mode.

Both of them can be done in one shot.

8.2.7.2 SS Side

Compressed mode configuration at SS side shall be maintained the same status as that on the UE side. So there are 3 different types of compressed mode configuration states both on UE and SS side.

- Configuration of compressed mode parameters (Use of DPCH_CompressedModeInfo) without the activation.
- Configuration of compressed mode parameters and simultaneous activation (use of DPCH_CompressedModeInfo).
- Only activation (use of DPCH_CompressedModeStatusInfo).

If compressed mode parameters are to be downloaded to the UE without actually activation, it shall be configured on the SS side by any one of the following two procedures.

- If DPCH channel on which compressed mode is to be downloaded is not already configured, primitive "CPHY_RL_Setup_REQ", with "CphyRlSetupReq. PhysicalChannelInfo" which is of choice, chosen to dPCHInfo shall be called. The procedure is used to pre-configure all compressed patterns necessary for test, but deactivate the all patterns configured at the beginning of the test. This procedure has not been implemented in the TTCN.
- If DPCH channel on which compressed mode is to be downloaded is already configured, the primitive "CPHY_RL_Modify_REQ" with "CphyRlModifyReq. PhysicalChannelInfo" which is of choice, chosen to dPCHInfo shall be called. This procedure in generally used in the TTCN.

If compressed mode parameters are to be configured and simultaneously activated, the same procedure as for the configuration of compressed mode without activation shall be used.

Activation of the compressed mode, whose parameters are already configured shall be achieved by the primitive "CPHY_RL_Modify_REQ" with "CphyRlModifyReq. PhysicalChannelInfo" which is of choice, chosen to dpch_CompressedModeStatusInfo.

8.2.8 Use of U-RNTI and C-RNTI

The uRNTI and cRNTI are optional when configuring the MAC (CMAC_Config_REQ). Table 44 gives indication on when uRNTI and cRNTI are needed.

P-CCPCH S-CCPCH with S-CCPCH **PRACH** with **PRACH DPCH** mapped DLwithout mapped mapped without DCCH/DTCH DL-DCCH/DTCH DL-DCCH/DTC mapped (UE in (UE in H (UE in DL-DCCH/DT cell_FACH) cell_DCH) cell_FACH) CH (UE in cell_DCH) uRNTI Omit Included cRNTI Included Included CMAC-Config_REQ OMIT both Download cRNTI OMIT both Download OMIT both OMIT both cRNTI and uRNTI

Table 44: cRNTI and uRNTI in CMAC-Config_REQ

In the case of DL-DCCH/DTCH mapped on S-CCPCH, cRNTI and uRNTI are downloaded to the MAC layer. As default, SS MAC shall use cRNTI as UE id. At the CMAC configuration of the beginning of test cases, the RLC payload size is configured, as default on cRNTI for the MAC header calculation. If uRNTI is to be used the SS RLC payload size shall be reconfigured as cRNTI and uRNTI do not have the same length (16 bits and 32 bits respectively).

CELL UPDATE CONFIRM or URA UPDATE CONFIRM shall be sent on DCCH at the test for the ciphering reason except the periodic update without carrying the UE identity information. In this case the CELL UPDATE CONFIRM or URA UPDATE CONFIRM is sent on CCCH at the test.

Cell update cause	UE State (before cell update)	CELL UPDATE CONFIRM	CRLC_Reconf RLC_Size Needed	Valid UE ID
Cell reselection	CELL_PCH / CELL_FACH	DCCH	Y	U_RNTI
Periodical cell update	CELL_PCH	DCCH or CCCH	Y (for DCCH)	U_RNTI
Periodical cell update	CELL_FACH	DCCH or CCCH	N	C_RNTI
Uplink data transmission	CELL_PCH / URA _PCH	DCCH	Υ	U_RNTI
UTRAN paging response	CELL_PCH / URA_PCH	DCCH	Υ	U_RNTI
Re-entered service area	CELL_PCH / URA_PCH	DCCH	Υ	U_RNTI
Re-entered service area	CELL_FACH	DCCH	N	C_RNTI
Radio Link failure	CELL_DCH	DCCH	Y	U_RNTI
RLC_unrecoverable error	CELL_DCH / CELL_FACH	DCCH	Y	U_RNTI
			N (selected the same cell in CELL_FACH)	C_RNTI

Table 45: Relationship between cell update cause, UE state and RLC size reconfiguration

8.3 Channels configurations

8.3.1 Configuration of Cell_FACH

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RRC tests related in the states CELL_FACH, CELL_PCH and URA_PCH. They need a minimum radio configuration for testing.

Table 46: Uplink configuration of Cell_FACH

RB Identity	tsc_RB20	tsc_RB0	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	
KB Identity	(20)	(0)	(1)	(2)	(3)	(4)	
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	
LogCh Identity	Tsc_UL_DTCH1	tsc_UL_CCCH5	tsc_UL_DCCH1	tsc_UL_DCCH2	tsc_UL_DCCH3	tsc_UL_DCCH4	
Logon identity	(7)	(5)	(1)	(2)	(3)	(4)	
RLC mode	AM	TM	UM	AM	AM	AM	
TrCH Type			RAC	Н			
TrCH identity	tsc_RACH1						
	(15)						
PhyCh Type	PRACH						
PhyCH identity	tsc_PRACH1						
1 Hyori Identity	(8)						

Table 47: Downlink configuration of Cell_FACH

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)			tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH (-2)	
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	PCCH
LogCh Identity	tsc_DL_DT CH1 (7)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode	AM	UM	UM	AM	AM	AM	TM	TM
MAC priority	1	1	2	3	4	5	6	1
TrCH Type	FACH			FAG	CH			PCH
TrCH identity	tsc_FACH2 (14)		tsc_FACH1 (13)					
PhyCh Type		Secondary CCPCH						
PhyCH identity		tsc_S_CCPCH1 (5)						

8.3.2 Configuration of Cell_DCH_StandAloneSRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1. 3. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to the RRC and NAS signalling tests in the DCH state without RAB.

Table 48: Uplink configuration of Cell_DCH_StandAloneSRB

DD Identity	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB0		
RB Identity	(1)	(2)	(3)	(4)	(0)		
LogCh Type	DCCH	DCCH	DCCH	DCCH DCCH			
LogCh Identity	tsc_UL_DCCH1	tsc_UL_DCCH2	tsc_UL_DCCH3	tsc_UL_DCCH4	tsc_UL_CCCH5		
Logon identity	(1)	(2)	(3)	(4)	(5)		
RLC mode	UM	UM AM AM AM				AM	
TrCH Type		DC	CH		RACH		
TrCH identity		tsc_UL_ (5	tsc_RACH1 (15)				
PhyCh Type	DPDCH				PRACH		
PhyCH identity		tsc_UL_ (20			tsc_PRACH1 (8)		

Table 49: Downlink configuration of Cell_DCH_StandAloneSRB

tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB0	tsc_RB_PCCH	
(1)	(2)	(3)	(4)	(0)	(-2)	
DCCH DCCH		DCCH	DCCH	CCCH	PCCH	
tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_CCCH	too DCCU1	
1	2	3	4	5	- (4)	
(1)	(2)	(3)	(4)	(5)	(1)	
UM	AM	AM	AM	UM	TM	AM
1	2	3	4	1	1	1
	DC	CH		FACH	PCH	FACH
	tsc_DL	_DCH5		tsc_FACH1	tsc_PCH1	tsc_FACH2
	(1	0)		(13)	(12)	(14)
DPCH				Secondary CCPCH		
		•	tsc_S_CCPCH1			
	(1) DCCH tsc_DL_DCCH 1 (1)	(1) (2) DCCH DCCH tsc_DL_DCCH tsc_DL_DCCH 1 2 (1) (2) UM AM 1 2 DC tsc_DL_ (1) DP	(1) (2) (3) DCCH DCCH DCCH tsc_DL_DCCH tsc_DL_DCCH tsc_DL_DCCH 1 2 3 (1) (2) (3) UM AM AM 1 2 3 DCH tsc_DL_DCH5 (10) (10)	(1) (2) (3) (4) DCCH DCCH DCCH DCCH tsc_DL_DCCH tsc_DL_DCCH tsc_DL_DCCH 1 2 3 4 (1) (2) (3) (4) UM AM AM AM AM 1 2 3 4 DCH tsc_DL_DCH5 (10) DPCH	(1) (2) (3) (4) (0) DCCH DCCH DCCH CCCH tsc_DL_DCCH tsc_DL_DCCH tsc_DL_CCCH 1 2 3 4 5 (1) (2) (3) (4) (5) UM AM AM AM UM 1 2 3 4 1 DCH FACH tsc_DL_DCH5 tsc_FACH1 (13) DPCH S tsc_DL_DPCH1 S	(1) (2) (3) (4) (0) (-2) DCCH DCCH DCCH DCCH PCCH tsc_DL_DCCH tsc_DL_DCCH tsc_DL_DCCH tsc_PCCH1 1 2 3 4 5 (1) (1) (2) (3) (4) (5) (1) UM AM AM AM UM TM 1 2 3 4 1 1 1 DCH FACH PCH PCH Tsc_PCH1 tsc_PCH1 (12) DPCH Secondary CCPCH Secondary CCPCH Tsc_S_CCPCH1 Tsc_S_CCPCH1

8.3.3 Configuration of Cell_DCH_Speech

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.4 and 6.10.2.4.1.5. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where a CS voice service, such as narrowband speech, emergency speech call or TS 61 for speech, is established.

Table 50: Uplink configuration of Cell_DCH_Speech

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)	tsc_RB12 (12)		
LogCh Type	DTCH	DTCH	DTCH	Como oo unlink	Como oo unlink
LogCh Identity	tsc_UL_DTCH1 (7)	tsc_UL_DTCH2 (8)	tsc_UL_DTCH3 (9)	Same as uplink configuration of	Same as uplink configuration of Cell_DCH_StandAlon
RLC mode	TM	TM	TM	neSRB on DPCH	eSRB on PRACH
TrCH Type	DCH	DCH	DCH	HESIND OILDI CIT	ESIND OIL FINACIT
TrCH identity	tsc_UL_DCH1 (1)	tsc_UL_DCH2 (2)	tsc_UL_DCH3 (3)		
PhyCh Type		PRACH			
PhyCH identity		tsc_PRACH1 (8)			

Table 51: Downlink configuration of Cell_DCH_Speech

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)	tsc_RB12 (12)		
LogCh Type	DTCH	DTCH	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	tsc_DL_DTCH3 (9)	Same as downlink configuration of	Same as downlink configuration of
RLC mode	TM	TM	TM	Cell_DCH_StandAlo	Cell_DCH_StandAlo
MAC priority	1	1	1	neSRB on DPCH	neSRB on sCCPCH
TrCH Type	DCH	DCH	DCH		
TrCH identity	tsc_DL_DCH1 (6)	tsc_DL_DCH2 (7)	tsc_DL_DCH3 (8)		
PhyCh Type		Secondary CCPCH			
PhyCH identity		tsc_S_CCPCH1 (5)			

8.3.4 Configuration of Cell_DCH_64kCS_RAB_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.13 for the conversational unknown quality class. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where one of the following CS transparent data services is established:

- Multimedia call 28,8 kbit/s, 3,1 kHz Audio;
- Multimedia call 32 kbit/s, UDI;
- Multimedia call 33,6 kbit/s, 3,1 kHz Audio;
- Multimedia call 56 kbit/s, RDI;
- Multimedia call 64 kbit/s, UDI;
- Asynchronous 3,1 kHz Audio 28,8 kbit/s;
- Synchronous 3,1 kHz Audio 28,8 kbit/s;
- Synchronous V.110 UDI up to 56 kbit/s;
- BTM RDI 56 kbit/s;
- BTM UDI 64 bit/s.

Table 52: Uplink configuration of Cell_DCH_64kCS_RAB_SRB

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration	Same as uplink configuration
Identity	(7)	of Cell_DCH_StandAloneSRB	of Cell_DCH_StandAloneSRB
RLC mode	TM	on DPCH	on PRACH
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh Type		DPDCH	PRACH
PhyCH	tsc	_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 53: Downlink configuration of Cell_DCH_64kCS_RAB_SRB

RB	tsc_RB10				
Identity	(10)				
LogCh Type	DTCH				
LogCh Identity	tsc_DL_DTCH 1 (7)	Same as downlink configuration of	Same as downlink configuration of		
RLC mode	TM	Cell_DCH_StandAloneSRB on DPCH	Cell_DCH_StandAloneSRB on sCCPCH		
MAC priority	1				
TrCH Type	DCH				
TrCH	tsc_DL_DCH1				
identity	(6)				
PhyCh		DPCH	Secondary CCPCH		
Type		DECIT	Secondary CCPCH		
PhyCH		tsc_DL_DPCH1	tsc_S_CCPCH1		
identity		(26)	(5)		

8.3.5 Configuration of Cell_DCH_57_6kCS_RAB_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.17 for the streaming unknown quality class. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where one of the following CS non-transparent data services is established:

- Asynchronous 3,1 kHz Audio up to 19,2 kbit/s;
- Asynchronous 3,1 kHz Audio modem auto-bauding;
- Asynchronous V.110 UDI up to 38,4 kbit/s, except 28,8 kbit/s;
- Asynchronous V.120 up to 56 kbit/s;
- Asynchronous PIAFS up to 64 kbit/s;
- Asynchronous FTM up to 64 kbit/s;
- Synchronous 3,1 kHz Audio up to 19,2 kbit/s;
- Synchronous V.110 UDI up to 56 kbit/s, except 28,8 kbit/s;
- Synchronous X.31 Flags Stuffing UDI up to 56 kbit/s;
- Synchronous V.120 up to 56 kbit/s;
- Synchronous BTM up to 64 kbit/s;
- TS61 FAX.

Table 54: Uplink configuration of Cell_DCH_57_6kCS_RAB_SRB

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH	Same as unlink configuration of	Same as unlink configuration of
LogCh Identity	tsc_UL_DTCH1 (7)	Same as uplink configuration of Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of Cell_DCH_StandAloneSRB on PRACH
RLC mode	TM	DFCIT	FRACII
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh		DPDCH	PRACH
Type		DEDCIT	FRACII
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

tsc_RB10 **RB** Identity (10)LogCh **DTCH Type** LogCh tsc DL DTCH1 Same as downlink configuration of Same as downlink configuration of Identity (7)Cell_DCH_StandAloneSRB on Cell_DCH_StandAloneSRB on RLC mode ŤΜ **DPCH** sCCPCH MAC 1 priority TrCH Type DCH TrCH tsc_DL_DCH1 identity (6) PhyCh **DPCH** Secondary CCPCH **Type** PhyCH tsc_DL_DPCH1 tsc_S_CCPCH1 identity (26)(5)

Table 55: Downlink configuration of Cell_DCH_57_6kCS_RAB_SRB

8.3.6 Configuration of Cell_RLC_DCH_RAB

The configuration is based on 3GPP TS 34.108 [3], clauses 6.11.1, 6.11.2, 6.11.3, and 6.11.4 for the RLC AM and UM tests with 7 and 15 bit length indicators. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The RB Ids used for the DTCH depend on the RLC mode and length indicator size being simulated (reference clause 6.5.2, RLC test method). Table 56 shows the test suite constants used for each RLC mode, and length indicator size.

Table 56: RB Ids used for DTCH depending on RLC mode and LI size

RLC mode	LI Size	TSC	RB Id
UM	7	tsc_RB_UM_7_RLC	-10
UM	15	tsc_RB_UM_15_RLC	-11
AM	7	tsc_RB_AM_7_RLC	-12
AM	15	tsc_RB_AM_15_RLC	-13

Table 57: Uplink configuration of Cell_RLC_DCH_RAB

RB Identity	See table 56		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	TM	DPCH	PRACH
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh		DPDCH	PRACH
Type		DEDCIT	FRACII
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 58: Downlink configuration of Cell_RLC_DCH_RAB

RB Identity	See table 56				
LogCh Type	DTCH				
LogCh Identity	tsc_DL_DTCH1 (7)		Same as downlink configuration of		
RLC mode	TM	Same as downlink configuration of Cell_DCH_StandAloneSRB on DPCH	Cell_DCH_StandAloneSRB on sCCPCH		
MAC priority	1		SOOFOII		
TrCH Type	DCH				
TrCH identity	tsc_DL_DCH1 (6)				
PhyCh Type		DPCH	Secondary CCPCH		
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)		

8.3.7 Configuration of Cell_FACH_BMC

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 without RAB/DTCH for uplink. A RB30/CTCH is configured. The configuration is applied to the BMC and CBSMS tests.

The uplink configuration of Cell_FACH_BMC is the same as the uplink configuration of Cell_FACH.

Table 59: Downlink configuration of Cell_FACH_BMC

RB Identity		tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BCC H_FACH (-3)	Tsc_RB30 (30)	tsc_RB_PCCH (-2)
LogCh Type		СССН	DCCH	DCCH	DCCH	DCCH	вссн	СТСН	PCCH
LogCh Identity		tsc_DL_ CCCH5 (5)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (4)	tsc_BCCH6 (6)	Tsc_CTCH (11)	tsc_PCCH1 (1)
RLC mode	AM	UM	UM	AM	AM	AM	ТМ	UM	TM
MAC priority	1	1	2	3	4	5	6	7	1
TrCH Type	FACH	FACH FACH							PCH
TrCH identity	tsc_FACH2 tsc_FACH1 (13)							tsc_PCH1 (12)	
PhyCh Type	Secondary CCPCH								
PhyCH identity		tsc_S_CCPCH1 (5)							

8.3.8 Configuration of PS Cell_DCH_64kPS_RAB_SRB and Cell_PDCP_AM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where a PS RAB on DTCH is setup for the interactive or background service class. The configuration is applied to PDCP test cases in acknowledge mode.

Table 60: Uplink configuration of PS Cell_DCH_64kPS_RAB_SRB SRB and Cell_PDCP_AM_RAB

RB Identity	tsc_RB20 (20)		
LogCh Type	DTCH		
LogCh Identity	tsc_UL_DTC H1 (7)	Same as uplink configuration of Cell_DCH_StandAloneSRB on	Same as uplink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM	DPCH	PRACH
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH 1 (1)		
PhyCh Type		DPDCH	PRACH
PhyCH identity		tsc_UL_DPCH1 (20)	tsc_PRACH1 (8)

Table 61: Downlink configuration of PS Cell_DCH_64kPS_RAB_SRB SRB and Cell_PDCP_AM_RAB

RB Identity	tsc_RB20 (20)				
LogCh Type	DTCH				
LogCh Identity	tsc_DL_DTC H1 (7)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of Cell_DCH_StandAloneSRB on		
RLC mode	AM	DPCH	sCCPCH		
MAC priority	1	DFGII	SOCFOIT		
TrCH Type	DCH				
TrCH identity	tsc_DL_DCH 1 (6)				
PhyCh Type		DPCH	Secondary CCPCH		
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)		

8.3.9 Configuration of Cell_Two_DTCH

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.6 to 6.10.2.4.1.11. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 62: Uplink configuration of Cell_Two_DTCH

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)				
LogCh Type	DTCH	DTCH				
LogCh	tsc_UL_DTCH	tsc_UL_DTCH		Same as uplink configuration of		
Identity	1	2	Same as uplink configuration of	Cell_DCH_StandAloneSRB on		
identity	(7)	(8)	Cell_DCH_StandAloneSRB on DPCH	PRACH		
RLC mode	TM	TM		TRAOTI		
TrCH Type	DCH	DCH				
TrCH	tsc_UL_DCH1	tsc_UL_DCH2				
identity	(1)	(2)				
PhyCh Type			PRACH			
PhyCH		tsc_L	tsc_PRACH1			
identity			(20)	(8)		

Table 63: Downlink configuration of Cell_Two_DTCH

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of Cell DCH StandAloneSRB on
RLC mode	TM	TM	DPCH	sCCPCH
MAC priority	1	1	DECIT	SCOPOLI
TrCH Type	DCH	DCH		
TrCH identity	tsc_DL_DCH1 (6)	tsc_DL_DCH2 (7)		
PhyCh Type	DPCH			Secondary CCPCH
PhyCH identity	tsc_DL_DPCH1 (26)			tsc_S_CCPCH1 (5)

8.3.10 Configuration of Cell_Single_DTCH (CS)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.12 to 6.10.2.4.1.22. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 64: Uplink configuration of Cell_Single_DTCH (CS)

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	TM	DPCH	PRACH
TrCH Type	DCH		
TrCH	tsc_UL_DCH1		
identity	(1)		
PhyCh Type		DPDCH	PRACH
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 65: Downlink configuration of Cell_Single_DTCH (CS)

RB Identity	tsc_RB10 (10)		
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	Same as downlink configuration of Cell_DCH_StandAloneSRB on	Same as downlink configuration of Cell DCH StandAloneSRB on
RLC mode	TM	DPCH	sCCPCH
MAC priority	1	DFGIT	SCOPOLI
TrCH Type	DCH		
TrCH identity	tsc_DL_DCH1 (6)		
PhyCh Type		DPCH	Secondary CCPCH
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)

8.3.11 Configuration of PS Cell_PDCP_UM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to PDCP test cases in unacknowledge mode.

Table 66: Uplink configuration of PS Cell_PDCP_UM_RAB

RB Identity	tsc_RB21 (21)		
LogCh Type	DTCH		
LogCh	tsc_UL_DTCH1	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	UM	DPCH	PRACH
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH1 (1)		
PhyCh Type		DPDCH	PRACH
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 67: Downlink configuration of PS Cell_PDCP_UM_RAB

RB Identity	tsc_RB21 (21)		
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of Cell DCH StandAloneSRB on
RLC mode	UM	DPCH	sCCPCH
MAC priority	1	DFGIT	SOCFOIT
TrCH Type	DCH		
TrCH	tsc_DL_DCH1		
identity	(6)		
PhyCh		DPCH	Secondary CCPCH
Type		DECIT	Secondary CCFCI1
PhyCH		tsc_DL_DPCH1	tsc_S_CCPCH1
identity		(26)	(5)

8.3.12 Configuration of PS Cell_PDCP_AM_UM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to PDCP test cases using both the acknowledged and unacknowledged mode.

Table 68: Uplink configuration of PS Cell_PDCP_AM_UM_RAB

RB Identity	tsc_RB20	tsc_RB21		
ND Identity	(20)	(21)		
LogCh Type	DTCH	DTCH		
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2	Same as uplink configuration of	Same as uplink configuration of
Identity	(7)	(8)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	AM	UM	DPCH	PRACH
TrCH Type	DO	CH		
TrCH identity	tsc_UL	_DCH1		
TICH Identity	(1)			
PhyCh Type		DPD	CH	PRACH
PhyCH		tsc_UL_	DPCH1	tsc_PRACH1
identity		(20	0)	(8)

Table 69: Downlink configuration of PS Cell_PDCP_AM_UM_RAB

RB Identity	tsc_RB20 (20)	tsc_RB21 (21)		
LogCh Type	DTCH	DTCH		
LogCh	tsc_DL_DTCH1	tsc_DL_DTCH2	Same as downlink configuration	Same as downlink
Identity	(7)	(8)	of Cell_DCH_StandAloneSRB	configuration of Cell_DCH_StandAloneSRB on sCCPCH
RLC mode	AM	UM	on DPCH	
MAC priority	1	1	OII DECIT	
TrCH Type	DO	CH		
TrCH identity	tsc_DL_DCH1 (6)			
PhyCh Type		DPC	CH	Secondary CCPCH
PhyCH		tsc_DL_I	DPCH1	tsc_S_CCPCH1
identity		(26	5)	(5)

8.3.13 Configuration of Cell_2SCCPCH_BMC

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 without RAB/DTCH for uplink. RB30/CTCH and RB31/CTCH as well as two PCCH are configured. The configuration is applied to the BMC and CBSMS tests.

Table 70: Uplink configuration of Cell_2SCCPCH_BMC

RB	tsc_RB20	tsc_RB0	tsc_RB1	tsc_RB2	Tsc_RB3	tsc_RB4	
Identity	(20)	(0)	(1)	(2)	(3)	(4)	
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	
LogCh Identity	Tsc_UL_DTCH1 (7)	tsc_UL_CCCH5 (5)	tsc_UL_DCCH1 (1)	tsc_UL_DCCH2 (2)	tsc_UL_DCCH3 (3)	tsc_UL_DCCH4 (4)	
RLC mode	AM	TM	ÚM	AM	AM	AM	
TrCH Type	RACH						
TrCH		tsc_RACH1					
identity	(15) PRACH						
PhyCh Type	ГЛАСП						
PhyCH	tsc_PRACH1						
identity			(8)			

Table 71: Downlink configuration of Cell_2SCCPCH_BMC: second S-CCPCH

RB Identity	Tsc_RB31	tsc_RB_2ndPCCH		
KB Identity	(31)	(-4)		
LogCh Type	CTCH	PCCH		
LogCh	Tsc_CTCH2	tsc_PCCH2		
Identity	(12)	(2)		
RLC mode	UM	TM		
MAC priority	1	1		
TrCH Type	FACH	PCH		
TrCU identity	tsc_FACH1	tsc_PCH2		
TrCH identity	(13)	(30)		
PhyCh Type	Secondary CCPCH			
PhyCH	tsc_S_CCPCH2			
identity		(10)		

Table 72: Downlink configuration of Cell_2SCCPCH_BMC: first S-CCPCCH

RB Identity	tsc_RB2 0 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BCCH _FACH (-3)	Tsc_RB30 (30)	tsc_RB_PCCH (-2)		
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн	СТСН	PCCH		
LogCh Identity	tsc_DL_ DTCH1 (6)	tsc_DL_ CCCH5 (5)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (4)	tsc_BCCH6 (6)	Tsc_CTCH1 (11)	tsc_PCCH1 (1)		
RLC mode	AM	UM	UM	AM	AM	AM	TM	UM	TM		
MAC priority	1	1	2	3	4	5	6	7	1		
TrCH Type	FACH				FA	СН			PCH		
TrCH identity	Tsc_FA CH2 (14)	CH2 ISC_FACH1									
PhyCh Type		Secondary CCPCH									
PhyCH identity					tsc_S	S_CCPCH ⁷ (5)	1				

8.3.14 Configuration of Cell_Four_DTCH_CS_PS, Cell_Four_DTCH_PS_CS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.40. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 73: Uplink configuration of Cell_Four_DTCH_CS_PS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB20					
Identity	(10)	(11)	(12)	(20)					
LogCh Type	DTCH	DTCH	DTCH	DTCH					
LogCh Identity	tsc_UL_DTC H1 (7)	tsc_UL_DTC H2 (8)	tsc_UL_DTC H3 (9)	tsc_UL_DTC H4 (10)	Same as uplink	Same as uplink			
RLC mode	TM	TM	TM	AM	configuration of Cell_DCH_StandAl	configuration of Cell_DCH_StandAlone SRB on PRACH			
MAC priority	1	1	1	1	oneSRB on DPCH				
TrCH Type	DCH	DCH	DCH tsc_UL_DCH	DCH					
TrCH identity	tsc_UL_DCH 1 (1)								
PhyCh Type		(1) (2) (3) (4) DPDCH							
PhyCH identity			tsc_UL_DPCI (20)	H1		tsc_S_CCPCH1 (5)			

Table 74: Downlink configuration of Cell_Four_DTCH_CS_PS, Cell_Four_DTCH_PS_CS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB20							
Identity	(10)	(11)	(12)	(20)							
LogCh Type	DTCH	DTCH	DTCH	DTCH		Same as downlink					
LogCh Identity	tsc_DL_DTC H1 (7)	tsc_DL_DTC H2 (8)	tsc_DL_DTC H3 (9)	tsc_DL_DTC H4 (10)	Same as downlink						
RLC mode	ТМ	ТМ	ТМ	AM	configuration of Cell_DCH_StandAl	configuration of Cell_DCH_StandAlone SRB on sCCPCH					
MAC priority	1	1	1	1	oneSRB on DPCH						
TrCH Type	DCH	DCH	DCH	DCH							
TrCH identity	tsc_DL_DCH 1 (6)	tsc_DL_DCH 2 (7)	Tsc_DL_DCH 3 (8)	tsc_DL_DCH 4 (9)							
PhyCh Type		DPCH									
PhyCH identity		tsc_DL_DPCH1 (20)									

8.3.15 Configuration of Cell_Two_DTCH_CS_PS, Cell_Two_DTCH_PS_CS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.51 and 6.10.2.4.1.53. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 75:Uplink configuration of Cell_Two_DTCH_CS_PS, Cell_Two_DTCH_PS_CS

RB Identity	tsc_RB10	tsc_RB20				
ND Identity	(10)	(20)				
LogCh Type	DTCH	DTCH	Same as uplink	Sama as unlink		
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2	configuration of	Same as uplink configuration of		
Identity	(7)	(8)	Cell_DCH_StandA loneSRB on	Cell_DCH_StandAloneS		
RLC mode	TM	AM		RB on PRACH		
TrCH Type	DCH	DCH	DPCH	NB OIT NACIT		
TrCH	tsc_UL_DCH1	tsc_UL_DCH2				
identity	(1)	(2)				
PhyCh Type		DPDCH		PRACH		
PhyCH		tsc_UL_DPCH1		tsc_PRACH1		
identity		(20)		(8)		

Table 76: Downlink configuration of Cell_Two_DTCH_CS_PS

RB	tsc_RB10	tsc_RB20					
Identity	(10)	(20)					
LogCh Type	DTCH	DTCH					
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	Same as downlink	Same as downlink			
RLC mode	TM	AM	configuration of Cell_DCH_StandAlon	configuration of Cell_DCH_StandAloneS			
MAC priority	1	1	eSRB on DPCH	RB on sCCPCH			
TrCH Type	DCH	DCH					
TrCH	tsc_DL_DCH1	tsc_DL_DCH2					
identity	(6)	(7)					
PhyCh Type		DPCH		Secondary CCPCH			
PhyCH identity		tsc_DL_DPCH (20)	1	tsc_S_CCPCH1 (5)			

8.3.16 Configuration of Cell_Four_DTCH_CS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.49. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 77: Uplink configuration of Cell_Four_DTCH_CS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB13				
Identity	(10)	(11)	(12)	(13)				
LogCh Type	DTCH	DTCH	DTCH	DTCH				
LogCh	tsc_UL_DTC	tsc_UL_DTC	tsc_UL_DTC	tsc_UL_DTC				
Identity	H1	H2	H3	H4				
identity	(1)	(2)	(3)	(4)	Same as uplink	Same as uplink		
RLC	TM	TM	TM	TM	configuration of	configuration of		
mode	I IVI	1 101	I IVI	I IVI	Cell_DCH_StandAloneS	Cell_DCH_StandAlone		
MAC	1	1	1	1	RB on DPCH	SRB on PRACH		
priority	•		•	•				
TrCH	DCH	DCH	DCH	DCH				
Type		_	_	_				
TrCH	tsc_UL_DCH	tsc_UL_DCH	tsc_UL_DCH	tsc_UL_DCH				
identity	1	2	3	4				
identity	(6)	(7)	(8)	(9)				
PhyCh			DPDCI	4		Secondary CCPCH		
Туре			טו טכו	1				
PhyCH			tsc_UL_DF	PCH1		tsc_S_CCPCH1		
identity			(20)			(5)		

Table 78: Downlink configuration of Cell_Four_DTCH_CS

RB Identity	tsc_RB10 (10)	tsc_RB11 (11)	tsc_RB12 (12)	tsc_RB13 (13)					
LogCh Type	DTCH	DTCH	DTCH	DTCH		Same as downlink			
LogCh Identity	tsc_DL_DTC H1 (7)	tsc_DL_DTC H2 (8)	tsc_DL_DTC H3 (9)	tsc_DL_DTC H4 (10)	Same as downlink				
RLC mode	ТМ	ТМ	ТМ	ТМ	configuration of Cell_DCH_StandAloneS	configuration of Cell_DCH_StandAlone SRB on sCCPCH			
MAC priority	1	1	1	1	RB on DPCH				
TrCH Type	DCH	DCH	DCH	DCH					
TrCH identity	tsc_DL_DCH 1 (6)	tsc_DL_DCH 2 (7)	2 3 4						
PhyCh Type		DPCH							
PhyCH identity				tsc_S_CCPCH1 (5)					

8.3.17 Configuration of Cell_DCH_MAC_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.3. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1; except that RB3 is mapped on TM mode.

The configuration is applied to the MAC tests.

Table 79: Uplink configuration of Cell_DCH_MAC_SRB

RB Identity	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DCCH _DCH_MAC (-15)	tsc_RB4 (4)	tsc_RB0 (0)		
LogCh Type	DCCH	DCCH	DCCH	DCCH	CCCH		
LogCh Identity	tsc_UL_DCCH1 (1)	tsc_UL_DCCH2 (2)	tsc_UL_DCCH3 (3)	tsc_UL_DCCH4 (4)	tsc_UL_CCCH5 (5)		
RLC mode	UM	AM	TM	AM	TM	AM	
TrCH Type		DC	H		RACH		
TrCH identity		tsc_UL_ (5	-		tsc_RACH1 (15)		
PhyCh Type		DPD	PRACH				
PhyCH identity		tsc_UL_ (2)			tsc_PRACH1 (8)		

Table 80: Downlink configuration of Cell_DCH_MAC_SRB

RB Identity	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DCC H_DCH_MAC (-15)	tsc_RB4 (4)	tsc_RB0 (0)	tsc_RB_PCCH (-2)		
LogCh Type	DCCH	DCCH	DCCH	DCCH	СССН	PCCH		
LogCh Identity	tsc_DL_DCCH 1 (1)	tsc_DL_DCCH 2 (2)	tsc_DL_DCCH 3 (3)	tsc_DL_DCCH 4 (4)	tsc_DL_CCCH 5 (5)	tsc_PCCH1 (1)		
RLC mode	UM	AM	TM	AM	UM	TM	AM	
MAC priority	1	2	3	4	1	1	1	
TrCH Type		DC	CH		FACH	PCH	FACH	
TrCH identity		tsc_DL (1	_DCH5 0)		tsc_FACH1 (13)	tsc_PCH1 (12)	tsc_FACH2 (14)	
PhyCh Type		DP	СН		Secondary CCPCH			
PhyCH identity		tsc_DL_ (2	DPCH1 6)		tsc_S_CCPCH1 (5)			

8.3.18 Configuration of Cell_FACH_MAC_SRB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink; except that RB3 is mapped on TM mode.

The configuration is applied to the MAC tests.

Table 81: Uplink configuration of Cell_FACH_MAC_SRB

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DCCH_FACH_M AC (-14)	tsc_RB4 (4)			
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH			
LogCh Identity	Tsc_UL_DTCH 1 (7)	tsc_UL_CCCH 5 (5)	tsc_UL_DCCH 1 (1)	tsc_UL_DCCH 2 (2)	tsc_UL_DCCH3 (3)	tsc_UL_DCCH 4 (4)			
RLC mode	AM	TM	UM	AM	TM	AM			
TrCH Type				RACH					
TrCH identity			t	sc_RACH1 (15)					
PhyCh Type	PRACH								
PhyCH identity			ts	c_PRACH1 (8)					

Table 82: Downlink configuration of Cell_FACH_MAC_SRB

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB_DC CH_FACH_ MAC (-14)	tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH (-2)		
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	вссн	PCCH		
LogCh Identity	tsc_DL_DT CH1 (6)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)		
RLC mode	AM	UM	UM	AM	TM	AM	ТМ	ТМ		
MAC priority	1	1	2	3	4	5	6	1		
TrCH Type	FACH			FA	СН			PCH		
TrCH identity	tsc_FACH2 (14)			tsc_F/ (1:				tsc_PCH1 (12)		
PhyCh Type		Secondary CCPCH								
PhyCH identity				tsc_S_C (5						

8.3.19 Configuration of Cell_FACH_MAC_SRB0

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink; except that the downlink SRB0 is mapped on TM mode.

The configuration is applied to the MAC tests.

The uplink configuration of Cell_FACH_MAC_SRB0 is the same as the uplink configuration of Cell_FACH.

Table 83: Downlink configuration of Cell_FACH_MAC_SRB0

RB Identity	tsc_RB20 (20)	tsc_RB_CC CH_FACH_ MAC (-18)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH (-2)		
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн	PCCH		
LogCh Identity	tsc_DL_DT CH1 (6)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)		
RLC mode	AM	ТМ	UM	AM	AM	AM	ТМ	TM		
MAC priority	1	1	2	3	4	5	6	1		
TrCH Type	FACH			FA	СН			PCH		
TrCH identity	tsc_FACH2 (14)			tsc_F/ (1:				tsc_PCH1 (12)		
PhyCh Type		Secondary CCPCH								
PhyCH identity				tsc_S_C (5						

8.3.20 Configuration of Cell_FACH_2SCCPCH_StandAlonePCH

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 for downlink and 3GPP TS 34.108 [3] except the mapping of PCH, clause 6.10.2.4.4.1.1.1 for uplink.

The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_2SCCPCH_StandAlonePCH is the same as the uplink configuration of Cell_FACH.

Table 84: Downlink configuration of Cell_FACH_2SCCPCH_StandAlonePCH

RB Identity	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH (-3)	tsc_RB_PC CH (-2)
LogCh Type	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн	PCCH
LogCh Identity	tsc_DL_DT CH1 (6)	tsc_DL_CC CH5 (5)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode	AM	UM	UM	AM	AM	AM	ТМ	TM
MAC priority	1	1	2	3	4	5	6	1
TrCH Type	FACH			FA	СН			PCH
TrCH identity	tsc_FACH2 (14)	= =						
PhyCh Type	Secondary CCPCH							Secondary CCPCH
PhyCH identity		tsc_S_CCPCH2 (10)						

8.3.21 Configuration of PS Cell_DCH_2AM_PS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.26 and 6.10.2.4.1.57. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 with 2 AM RAB and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MAC and RAB test cases.

Table 85: Uplink configuration of Cell_DCH_2AM_PS

RB Identity	tsc_RB20	tsc_RB22		
ND Identity	(20)	(22)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_UL_DTCH 1 (7)	tsc_UL_DTCH 2 (8)	Same as uplink configuration of Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of Cell_DCH_StandAloneSRB on PRACH
RLC mode	AM	AM	DFCIT	FRACII
TrCH Type	DC	H		
TrCH identity	tsc_UL	_DCH1		
11 Off facility	(1)			
PhyCh Type		D	PDCH	PRACH
PhyCH		tsc_U	L_DPCH1	tsc_PRACH1
identity			(20)	(8)

Table 86: Downlink configuration of Cell_DCH_2AM_PS

RB Identity	tsc_RB20 (20)	tsc_RB22 (22)			
LogCh Type	DTCH	DTCH			
LogCh Identity	tsc_DL_DTCH 1 (7)	tsc_DL_DTCH 2 (8)	Same as downlink configuration of Cell DCH StandAloneSRB	Same as downlink configuration of Cell_DCH_StandAloneSRB on	
RLC mode	AM	AM	on DPCH	sCCPCH	
MAC priority	1	1	OH DI CH		
TrCH Type	DC	CH			
TrCH identity	tsc_DL_DCH1 (6)				
PhyCh Type		DP	CH	Secondary CCPCH	
PhyCH identity		tsc_DL_	•	tsc_S_CCPCH1	
identity		(2	6)	(5)	

8.3.22 Configuration of PS Cell_DCH_2_PS_Call

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.56 and 6.10.2.4.1.58. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 87: Uplink configuration of Cell_DCH_2_PS_Call

RB Identity	tsc_RB20 (20)	tsc_RB22 (22)		
LogCh Type	DTCH	DTCH		
LogCh	tsc_UL_DTCH	tsc_UL_DTCH		
Identity	1	2	Same as uplink configuration of	Same as uplink configuration of
identity	(7)	(8)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	AM	AM	DPCH	PRACH
TrCH Type	DCH	DCH		
TrCH identity	tsc_UL_DCH1 (1)	tsc_UL_DCH2 (2)		
PhyCh Type		D	PRACH	
PhyCH		tsc_U	L_DPCH1	tsc_PRACH1
identity			(20)	(8)

Table 88: Downlink configuration of Cell_DCH_2_PS_Call

RB Identity	tsc_RB20	tsc_RB22				
KB Identity	(20)	(22)				
LogCh Type	DTCH	DTCH				
LogCh	tsc_DL_DTCH	tsc_DL_DTCH	Same as downlink			
Identity	1	2	configuration of	Same as downlink configuration of		
identity	(7)	(8)	Cell DCH StandAloneSRB	Cell_DCH_StandAloneSRB on		
RLC mode	AM	AM	on DPCH	sCCPCH		
MAC priority	1	1	OH DI CH			
TrCH Type	DCH	DCH				
TrCH identity	tsc_DL_DCH1	tsc_DL_DCH2				
Troffidentity	(6)	(7)				
PhyCh Type		DP	Secondary CCPCH			
PhyCH		tsc_DL_	tsc_S_CCPCH1			
identity		(2	6)	(5)		

8.3.23 Configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg1

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg1 is the same as the uplink configuration of Cell_FACH.

Table 89: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg1: 1st & 2nd S-CCPCH

RB Identity		tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)
LogCh Type		СССН	вссн	PCCH
LogCh Identity		tsc_DL_CCCH 5 (5)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode		UM	TM	TM
MAC priority		1	6	1
TrCH Type	FACH	FA	CH	PCH
TrCH identity	tsc_FACH2 (14)	_	tsc_FACH1 (13)	
PhyCh Type	Secondary CCPCH			Secondary CCPCH
PhyCH identity		tsc_S_CCPCH2 (10)		tsc_S_CCPCH1 (5)

Table 90: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg1: 3rd S-CCPCH

RB Identity	tsc_RB20 (20)	tsc_RB29 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH_ RAB (-19)
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
LogCh Identity	tsc_DL_DTC H1 (7)	tsc_DL_C CCH6 (6)	tsc_DL_DC CH1 (1)	tsc_DL_DC CH2 (2)	tsc_DL_DC CH3 (3)	tsc_DL_DC CH4 (4)	tsc_BCCH7 (7)
RLC mode	ÀM	ÙМ	ÙЙ	ÀM	ÀM	ÀM	TM
MAC priority	1	1	2	3	4	5	6
TrCH Type	FACH			FA	CH		
TrCH	tsc_FACH4			tsc_F	ACH3		
identity	(17)	(16)					
PhyCh Type		Secondary CCPCH					
PhyCH		·	ts	sc_S_CCPCH3	3	·	
identity				(13)			

8.3.24 Configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg2

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg2 is the same as the uplink configuration of Cell_FACH.

Table 91: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg2: 2nd S-CCPCH

RB Identity	tsc_RB20 (20)	tsc_RB29 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3	tsc_RB4 (4)	tsc_RB_BC CH_FACH_ RAB (-19)
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
LogCh	tsc_DL_DTC	tsc_DL_C	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_BCCH7
Identity	H1	CCH6	CH1	CH2	CH3	CH4	(7)
identity	(7)	(6)	(1)	(2)	(3)	(4)	
RLC mode	AM	UM	UM	AM	AM	AM	TM
MAC priority	1	1	2	3	4	5	6
TrCH Type	FACH			FA	CH		
TrCH	tsc_FACH2			tsc_F	ACH1		
identity	(14)	(13)					
PhyCh Type	Secondary CCPCH						
PhyCH		•	ts	sc_S_CCPCH2	2	•	
identity				(10)			

Table 92: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_Cnfg2: 1st & 3rd S-CCPCH

RB Identity		tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)
LogCh Type		CCCH	BCCH	PCCH
LogCh Identity		tsc_DL_CCCH 5 (5)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode		UM	TM	TM
MAC priority		1	6	1
TrCH Type	FACH	FA	CH	PCH
TrCH	tsc_FACH4	tsc_F	ACH3	tsc_PCH1
identity	(17)	(1	6)	(12)
PhyCh Type	Se	econdary CCPCF	I	Secondary CCPCH
PhyCH identity	1	sc_S_CCPCH3 (13)		tsc_S_CCPCH1 (5)

8.3.25 Configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH is the same as the uplink configuration of Cell_FACH.

Table 93: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH: 1st & 2nd S-CCPCH

RB Identity	tsc_RB30	tsc_RB0	tsc_RB_BCCH_FACH	tsc_RB_PCCH
No identity	(30)	(0)	(-3)	(-2)
LogCh Type	CTCH	CCCH	BCCH	PCCH
LogCh Identity	tsc_CTCH1	tsc_DL_CCCH5	tsc_BCCH6	tsc_PCCH1
Logon identity	(11)	(5)	(6)	(1)
RLC mode	UM	UM	TM	TM
MAC priority	7	1 6		1
TrCH Type	FACH	F	ACH	PCH
TrCH identity	tsc_FACH2	tsc_	tsc_PCH1	
Tron identity	(14)		(12)	
PhyCh Type		Secondary		
i ilyon i ype		CCPCH		
PhyCH identity		tsc_S_CCPCH1		
1 Hyorr Identity		(5)		

Table 94: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH: 3rd S-CCPCH

RB Identity	tsc_RB20 (20)	tsc_RB29 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BC CH_FACH_ RAB (-19)
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
LogCh	tsc_DL_DTC	tsc_DL_CC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_BCCH7
Identity	H1 (7)	CH6 (6)	CH1 (1)	CH2 (2)	CH3 (3)	CH4 (5)	(7)
RLC mode	AM	UM	UM	AM	AM	AM	TM
MAC priority	1	1	2	3	4	5	6
TrCH Type	FACH			FAG	CH		
TrCH	tsc_FACH4			tsc_F/	ACH3		
identity	(17)	(16)					
PhyCh Type	Secondary CCPCH						
PhyCH			ts	c_S_CCPCH3		•	
identity				(13)			

8.3.26 Configuration of PS Cell_DCH_DSCH_PS_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.2.1. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RAB signalling tests where a PS RAB on DTCH is setup for the interactive or background service class is mapped on to DSCH.

The uplink configuration is same in clause 8.3.8.

Table 95a: Downlink configuration of PS Cell_DCH_DSCH_PS_RAB

RB Identity	tsc_RB20 (20)	Same as downlink configuration of Cell_DCH_StandAloneSRB on DPCH	
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTCH1 (7)		Same as downlink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM		sCCPCH
MAC	1		
priority	I I		
TrCH Type	DSCH		
TrCH	tsc_DSCH1		
identity	(19)		
PhyCh	PDSCH	DPCH	Secondary CCPCH
Туре	1 20011	21 011	Secondary Got Git
PhyCH	tsc_DL_PDSCH1	tsc_DL_DPCH1	tsc_S_CCPCH1
identity	(16)	(26)	(5)

8.3.27 Configuration of Cell_DCH_DSCH_CS_PS

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.2.4. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The Uplink configuration is similar to clause 8.3.14.

Table 97b: Downlink configuration of Cell_DCH_DSCH_CS_PS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB20		
Identity	(10)	(11)	(12)	(20)		
LogCh Type	DTCH	DTCH	DTCH	DTCH		Same as downlink configuration of Cell_DCH_StandAlone SRB on sCCPCH
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	tsc_DL_DTCH3 (9)	tsc_DL_DTCH4 (10)	Same as downlink	
RLC mode	TM	ТМ	TM	AM	configuration of Cell_DCH_Stand	
MAC priority	1	1	1	1	AloneSRB on DPCH	
TrCH Type	DCH	DCH	DCH	DSCH		
TrCH identity	tsc_DL_DCH 1 (6)	tsc_DL_DCH 2 (7)	Tsc_DL_DCH 3 (8)	tsc_DL_DSC H1 (19)		
PhyCh Type		DPCH		PDSCH	DPCH	Secondary CCPCH
PhyCH identity		tsc_DL_DPCH1 (20)		tsc_DL_PDS CH1 (16)	tsc_DL_DPCH1 (20)	tsc_S_CCPCH1 (5)

8.3.28 Configuration of Cell_FACH_2SCCPCH_StandAlonePCH_2a

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2a for downlink and 3GPP TS 34.108 [3] except the mapping of PCH, clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

Table 96: Uplink configuration of Configuration of Configuration of Cell_FACH_2SCCPCH_StandAlonePCH_2a

RB Identity	tsc_RB24 (24)	tsc_RB20 (20)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)		
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH		
LogCh Identity	tsc_UL_DTCH4 (10)	tsc_UL_DTCH1 (7)	tsc_UL_CCCH5 (5)	tsc_UL_DCCH1 (1)	tsc_UL_DCCH2 (2)	tsc_UL_DCCH3 (3)	tsc_UL_DCCH4 (4)		
RLC mode	AM	AM	TM	UM	AM	AM	AM		
TrCH Type		RACH							
TrCH identity		tsc_RACH1 (15)							
PhyCh Type	PRACH								
PhyCH identity	tsc_PRACH1 (8)								

Table 97: Downlink configuration of Cell_FACH_2SCCPCH_StandAlonePCH_2a

RB Identity	tsc_RB20 (20)	tsc_RB24 (24)	tsc_RB0 (0)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_BCCH_FACH (-3)	tsc_RB_2ndPCCH (-4)
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH	PCCH
LogCh Identity			tsc_DL_CC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_BCCH6 (6)	tsc_PCCH1 (1)
	CH1 (7)	H4 (10)	CH5 (5)	CH1 (1)	CH2 (2)	CH3 (3)	CH4 (4)		` ,
RLC mode	AM	AM	UM	UM	AM	AM	AM	TM	TM
MAC priority	1	1	1	2	3	4	5	6	1
TrCH Type	FACH	FACH				FACH			PCH
TrCH identity	tsc_FAC	CH2 (14)		tsc_FACH1(13)					tsc_PCH1 (12)
PhyCh Type		Secondary CCPCH					Secondary CCPCH		
PhyCH identity				tsc S	CCPCH2 (10	0)	•		tsc_S_CCPCH1 (5)

8.3.29 Configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2a for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg1 is the same as the uplink configuration of Cell_FACH_2 SCCPCH_StandAlonePCH_2a.

Table 98: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1: 1st & 2nd S-CCPCH

RB Identity			tsc_RB0 (0)	tsc_RB_BCCH_F ACH (-3)	tsc_RB_PCCH (-2)		
LogCh Type			СССН	BCCH	PCCH		
LogCh Identity			tsc_DL_CCCH5	tsc_BCCH6	tsc_PCCH1		
Logon identity			(5)	(6)	(1)		
RLC mode			UM	TM	TM		
MAC priority			1	6	1		
TrCH Type	FACH	FACH	FA	CH	PCH		
TrCH identity	tsc_FA	CH2	tsc_F	tsc_PCH1			
TICH Identity	(14	(12)					
PhyCh Type		Secondary CCPCH					
PhyCH identity		tsc_S_CCPCH2					
Filyon Identity		(10)					

Table 99: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg1: 3rd S-CCPCH

RB Identity	tsc_RB24 (24)	tsc_RB2 0 (20)	tsc_RB2 9 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB 3 (3)	tsc_RB4 (4)	tsc_RB_BCCH _FACH_RAB (-19)
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
LogCh Identity	tsc_DL_DTC H4 (10)	tsc_DL_ DTCH1 (7)	tsc_DL_ CCCH6 (6)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL _DCCH 3 (3)	tsc_DL_D CCH4 (4)	tsc_BCCH7 (7)
RLC mode	AM	AM	UM	UM	AM	ΑM	AM	TM
MAC priority	1	1	1	2	3	4	5	6
TrCH Type	FACH	l				FACH		
TrCH identity	tsc_FAC (17)	:H4	tsc_FACH3 (16)					
PhyCh Type	Secondary CCPCH							
PhyCH identity				tsc_S_CC	PCH3 (13)			

8.3.30 Configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2a for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg2 is the same as the uplink configuration of Cell_FACH_2_SCCPCH_StandAlonePCH_2a.

Table 100: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2: 2nd S-CCPCH

RB Identity	tsc_RB21 (24)	tsc_RB2 0 (20)	tsc_RB2 9 (29)	tsc_RB 1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_ BCCH_F ACH_RA B (-19)
LogCh Type	DTCH	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	BCCH
LogCh Identity	tsc_DL_D TCH2 (10)	tsc_DL_ DTCH1 (7)	tsc_DL_ CCCH6 (6)	tsc_DL _DCCH 1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (4)	tsc_BCC H7 (7)
RLC mode	AM	AM	UM	UM	AM	AM	AM	TM
MAC priority	1	1	1	2	3	4	5	6
TrCH Type	FACH	FACH			FA	CH		
TrCH identity	tsc_FA (14		tsc_FACH1 (13)					
PhyCh Type	Secondary CCPCH							
PhyCH identity			ts	c_S_CCF	PCH2 (10)			

Table 101: Downlink configuration of Cell_FACH_3_SCCPCH_4_FACH_2a_Cnfg2: 1st & 3rd S-CCPCH

RB Identity			tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)
LogCh Type			CCCH	BCCH	PCCH
LogCh Identity			tsc_DL_CCCH 5 (5)	tsc_BCCH6 (6)	tsc_PCCH1 (1)
RLC mode			UM	TM	TM
MAC priority			1	6	1
TrCH Type	FACH	FACH	FACH		PCH
TrCH identity	tec FACHA		tsc_FACH3 (16)		tsc_PCH1 (12)
PhyCh Type		Secondary	ССРСН		Secondary CCPCH
PhyCH identity		tsc_S_CCPCH1 (5)			

8.3.31 Configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.2 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.2 for uplink. The configuration is applied to the RAB tests.

The uplink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a is the same as the uplink configuration of Cell_FACH_3_SCCPCH_4_FACH Cnfg1.

Table 102: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a: 1st & 2nd S-CCPCH

RB Identity	tsc_RB30 (30)	tsc_RB0 (0)	tsc_RB_BCCH_ FACH (-3)	tsc_RB_PCCH (-2)
LogCh Type	CTCH	CCCH	BCCH	PCCH
LogCh Identity	tsc_CTCH1 (11)	tsc_DL_CCCH5 (5)	tsc_BCCH6 (6)	tsc_PCCH1
RLC mode	UM	UM	TM	TM
MAC priority	7	1	6	1
TrCH Type	FACH	FACH		PCH
TrCH identity	tsc_FACH2	tsc_FACH1	tsc_PCH1	
Troffidentity	(14)	(13)	(12)	
PhyCh Type		Secondary CCPCH		
PhyCH identity		tsc_S_CCPCH1		
rifyCritidentity		(10)		(5)

Table 103: Downlink configuration of Cell_FACH_3_SCCPCH_3_FACH_CTCH_2a: 3rd S-CCPCH

RB Identity	tsc_RB24 (24)	tsc_RB20 (20)	tsc_RB2 9 (29)	tsc_RB1 (1)	tsc_RB2 (2)	tsc_RB3 (3)	tsc_RB4 (4)	tsc_RB_ BCCH_F ACH_RA B (-19)
LogCh Type	DTCH	DTCH	СССН	DCCH	DCCH	DCCH	DCCH	вссн
LogCh Identity	tsc_DL_D TCH4(10)	tsc_DL_D TCH1 (7)	tsc_DL_ CCCH6 (6)	tsc_DL_ DCCH1 (1)	tsc_DL_ DCCH2 (2)	tsc_DL_ DCCH3 (3)	tsc_DL_ DCCH4 (5)	tsc_BCC H7 (7)
RLC mode	AM	AM	UM	UM	AM	AM	AM	TM
MAC priority	1	1	1	2	3	4	5	6
TrCH Type	FACH	FACH			FA	CH		
TrCH identity	tsc_F/ (1		tsc_FACH3 (16)					
PhyCh Type		Secondary CCPCH						
PhyCH identity				tsc_S_C0 (13				

8.3.32 Configuration of Cell_DCH_HS_DSCH (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.1 or 6.10.2.4.5.2. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those RRC and NAS signalling tests in the DCH state where a PS RAB on DTCH mapped on HS-DSCH is setup for the interactive or background service class.

Table 104: Uplink configuration of Cell_DCH_HS_DSCH

RB Identity	tsc_RB25	Same as uplink configuration of	Same as uplink configuration of
	(25)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
LogCh Type	DTCH	DPCH	PRACH
LogCh Identity	tsc_UL_DTCH1		
	(7)		
RLC mode	AM		
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH1		
	(1)		
PhyCh Type		DPDCH	PRACH
PhyCH identity	tso	C_UL_DPCH1	tsc_PRACH1
		(20)	(8)

Table 105: Downlink configuration of Cell_DCH_HS_DSCH

RB Identity	tsc_RB25	Same as downlink configuration	Same as downlink configuration
	(25)	of Cell_DCH_StandAloneSRB	of Cell_DCH_StandAloneSRB
LogCh Type	DTCH	on DPCH	on sCCPCH
LogCh Identity	tsc_DL_DTCH1		
	(7)		
RLC mode	AM		
MAC priority	8		
TrCH Type	HS-DSCH		
TrCH identity	0		
/QueueID			
PhyCh Type	PDSCH	DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH	tsc_DL_DPCH1	tsc_S_CCPCH1
	(18)	(26)	(5)

8.3.33 Configuration of cell_One_DTCH_HS_DSCH_MAC (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.1. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those MAC-hs/MAC-ehs[Rel-7 or later] Signalling tests in the DCH state where a PS RAB on DTCH mapped on HS-DSCH is setup for the interactive or background service class.

Table 106: Uplink configuration of cell_One_DTCH_HS_DSCH_MAC

RB Identity	tsc_RB_MAC_HS	Same as uplink configuration of	Same as uplink configuration of
	(-25)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
LogCh Type	DTCH	DPCH	PRACH
LogCh Identity	tsc_UL_DTCH1		
	(7)		
RLC mode	TM		
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH1		
	(1)		
PhyCh Type		DPDCH	PRACH
PhyCH identity	tso	:_UL_DPCH1	tsc_PRACH1
		(20)	(8)

Table 107: Downlink configuration of Cell_DCH_HS_DSCH

RB Identity	tsc_RB_MAC_HS (-	Same as downlink configuration	Same as downlink configuration
_	25)	of Cell_DCH_StandAloneSRB	of Cell_DCH_StandAloneSRB
LogCh Type	DTCH	on DPCH	on sCCPCH
LogCh Identity	tsc_DL_DTCH1		
	(7)		
RLC mode	TM		
MAC priority	8		
TrCH Type	HS-DSCH		
TrCH identity	0		
/QueueID			
PhyCh Type	PDSCH	DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH	tsc_DL_DPCH1	tsc_S_CCPCH1
	(18)	(26)	(5)

8.3.33a Configuration of cell_Three_DTCH_1Q_HS_DSCH_MAC (Rel-7 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.11.4f. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to those MAC-ehs Signalling tests in the DCH state where a 3 PS RAB on DTCH mapped on HS-DSCH [1 MAC-ehs Queue] is setup for the interactive or background service class.

Table 105a: Uplink configuration of cell Three DTCH 1Q HS DSCH MAC

RB Identity	tsc_RB_MAC_HS	tsc_RB_MAC_ehs_26	tsc_RB_MAC_ehs_27	Same as uplink configuration of		
_	(-25)	(-26)	(-27)	Cell_DCH_StandAloneSRB on		
LogCh Type	DTCH	DTCH	DTCH	DPCH		
LogCh Identity	tsc_UL_DTCH1	tsc_UL_DTCH2	tsc_UL_DTCH3			
	(7)	(8)	(9)			
RLC mode	TM	TM	TM			
TrCH Type		DCH				
TrCH identity		tsc_UL_DCH1				
PhyCh Type	DPDCH					
PhyCH identity	tsc_UL_DPCH1					
			(20)			

Table 105b: Downlink configuration of cell_Three_DTCH_1Q_HS_DSCH_MAC

RB Identity	tsc_RB_MAC_HS (-	tsc_RB_MAC_ehs_26	tsc_RB_MAC_ehs_27	Same as downlink configuration
	25)	(-26)	(-27)	of Cell_DCH_StandAloneSRB
LogCh Type	DTCH	DTCH	DTCH	on DPCH
LogCh Identity	tsc_DL_DTCH1	tsc_DL_DTCH2	tsc_DL_DTCH3	
	(7)	(8)	(9)	
RLC mode	TM	TM	TM	
MAC priority	8	8	8	
TrCH Type		HS-DSCH		
TrCH identity		0		
/QueueID				
PhyCh Type		DPCH		
PhyCH identity		tsc_DL_DPCH1		
		(18)		(26)

8.3.33b Configuration of cell_Three_DTCH_3Q_HS_DSCH_MAC (Rel-7 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.11.4f. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3],

clause 6.10.2.4.4.1.1.1. The configuration is applied to those MAC-ehs Signalling tests in the DCH state where a 3 PS RAB on DTCH mapped on HS-DSCH [1 MAC-ehs Queue] is setup for the interactive or background service class.

The uplink configuration of cell_Three_DTCH_3Q_HS_DSCH_MAC is the same as the uplink configuration of cell_Three_DTCH_1Q_HS_DSCH_MAC

Table 105c: Downlink configuration of cell_Three_DTCH_3Q_HS_DSCH_MAC

RB Identity	Tsc_RB_MAC_HS (- tsc_RB_MAC_ehs_26 tsc_R		tsc_RB_MAC_ehs_27	Same as downlink configuration
	25)	(-26)	(-27)	of Cell_DCH_StandAloneSRB
LogCh Type	DTCH	DTCH	DTCH	on DPCH
LogCh Identity	tsc_DL_DTCH1	tsc_DL_DTCH2	tsc_DL_DTCH3	
	(7)	(8)	(9)	
RLC mode	TM	TM	TM	
MAC priority	8	8	8	
TrCH Type	HS-DSCH	HS-DSCH	HS-DSCH	
TrCH identity	0	1	2	
/QueueID				
PhyCh Type		DPCH		
PhyCH identity		tsc_DL_DPCH1		
		(26)		

8.3.33c Configuration of Cell_E_HS_SRB_MAC_TM_RAB (Rel-7 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.3, with RAB configured in TM mode on SS side. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A14):

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

Table 105d: Uplink configuration of Cell_E_HS_SRB_MAC_TM_RAB

RB Identity	tsc_RB_DTCH_E_DCH_MAC1 (-21)	Same as uplink	
LogCh Type	DTCH	configuration of	
LogCh	tsc_UL_DTCH1	Cell_DCH_StandAloneSRB	Same as uplink configuration
Identity	(7)	on DPCH	of Cell_DCH_StandAloneSRB
RLC mode	TM		on PRACH
TrCH Type	E-DC	H	
TrCH identity/	2	1	
Mac-d Flow Id			
PhyCh Type	E-DPD	PRACH	
PhyCH	tsc_E_D	tsc_PRACH1	
identity	(22)		(8)

Table 105e: Downlink configuration of Cell_E_HS_SRB_MAC_TM_RAB

RB Identity	tsc_RB_DTCH_E_DCH_MAC1 (-21)	Same as downlink	
LogCh Type	DTCH	configuration of	
LogCh	tsc_DL_DTCH1	Cell_DCH_StandAloneSRB	Same as downlink
Identity	(7)	on DPCH	configuration of
RLC mode	TM	OII DI CIT	Cell_DCH_StandAloneSRB
MAC priority	8		on PRACH
TrCH Type	HS-DS0	OIT RAOIT	
TrCH identity	0	1	
/ Mac-d Flow			
ld			
PhyCh Type	PDSCI	Secondary CCPCH	
PhyCH	tsc_HSPD	tsc_S_CCPCH1	
identity	(18)		(5)

8.3.34 Configuration of Cell_2UM_3AM_DCH_HS_DSCH (Rel-5 or later)

The configuration is based on 3GPP TS 34.108[3], clause 6.11.4a The RB0/UM-CCCH is referred to 3GPP TS 34.108[3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MAC test case 7.1.5.2.

Table 108: Uplink configuration of Cell_2UM_3AM_DCH_HS_DSCH

RB Identity	tsc_RB26	tsc_RB27	tsc_RB25	tsc_RB28	tsc_RB17		
ND Identity	(26)	(27)	(25)	(28)	(17)	Same as	Same as
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH	uplink	uplink
LogCh	tsc_UL_	tsc_UL_DT	tsc_UL_DT	tsc_UL_DT	tsc_UL_DT	configurati	configurati
Identity	DTCH1	CH2	CH3	CH4	CH5	on of	on of
identity	(7)	(8)	(9)	(10)	(13)	Cell_DCH_	Cell_DCH
RLC mode	UM	UM	AM	AM	AM	StandAlon	_StandAlo
TrCH Type		DCH eSRB on					
TrCH identity			tsc_UL_DCF	11		DPCH	PRACH
PhyCh Type		DPDCH					
PhyCH	tsc_UL_DPCH1						tsc_PRAC
identity						H1	
identity	(20)						(8)

Table 109: Downlink configuration of Cell_2UM_3AM_DCH_HS_DSCH

RB Identity	tsc_RB26 (26)	tsc_RB27 (27)	tsc_RB25 (25)	tsc_RB28 (28)	tsc_RB17 ()		
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH	Same as	Same as
LogCh Identity	tsc_DL_D TCH1 (7)	tsc_DL_DT CH2 (8)	tsc_DL_DT CH3 (9)	tsc_DL_DT CH4 (10)	tsc_DL_DT CH5 (11)	downlink configuratio n of	downlink configurati on of
RLC mode	UM	UM	AM	AM	AM	Cell_DCH_	Cell_DCH
MAC priority	8	8	8	8	8	StandAlone SRB on	_StandAlo neSRB on
TrCH Type			HS-DSCH			DPCH	sCCPCH
TrCH identity /QueueID	0 1 2						
PhyCh Type	PDSCH					DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH (18)					tsc_DL_DP CH1 (26)	tsc_S_CC PCH1 (5)

8.3.35 Configuration of Cell_DCH_Speech_WAMR (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.62. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108[3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RAB test 14.2.62.

Table 110: Uplink configuration of Cell_DCH_Speech_WAMR

RB	tsc_RB10	tsc_RB11		
Identity	(10)	(11)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_UL_DT CH1 (7)	tsc_UL_DTCH 2 (8)	Same as uplink configuration of	Same as uplink configuration of
RLC mode	ТМ	TM	Cell_DCH_StandAloneS RB on DPCH	Cell_DCH_StandAloneSRB on PRACH
TrCH Type	DCH	DCH		
TrCH identity	tsc_UL_D CH1 (1)	tsc_UL_DCH2 (2)		
PhyCh Type		DPD	PRACH	
PhyCH		tsc_UL_E	PCH1	tsc_PRACH1
identity		(20)	(8)

tsc_RB11 RB tsc_RB10 tsc_RB5 Identity (10)(11) (5) LogCh DTCH DTCH **DCCH** Type tsc_DL_DT tsc_DL_DTC tsc_DL_DC LogCh CH1 H2 CH5 Identity Same as downlink Same as downlink (7) (8) (5) RLC configuration of configuration of TM TM TM Cell_DCH_StandAloneSRB Cell_DCH_StandAloneSRB mode MAC on DPCH on sCCPCH 1 1 5 priority TrCH DCH DCH DCH Type tsc_DL_D tsc_DL_DC tsc_DL_DC TrCH CH1 H2 H6 identity (6) (7) (22)PhyCh **DPCH** Secondary CCPCH Type **PhyCH** tsc_DL_DPCH1 tsc_S_CCPCH1 identity (26)(5)

Table 111: Downlink configuration of Cell_DCH_Speech_WAMR

8.3.36 Configuration of PS Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.3 and 6.10.2.4.5.3a. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The uplink configuration is same in clause 8.3.14 except a HS-DPCCH shall be included in the UL_DPCH and tsc_RB25 shall be used instead of tsc_RB20.

Table 112: Downlink configuration of PS Cell Four DTCH HS CS and Cell Four DTCH CS HS

RB Identity	tsc_RB25	tsc_RB10	tsc_RB11	tsc_RB12		
KB Identity	(25)	(10)	(11)	(12)		
LogCh Type	DTCH	DTCH	DTCH	DTCH		Same as
LogCh Identity	tsc_DL_DTCH4 (10)	tsc_DL_DTC H1 (7)	tsc_DL_DTCH 2 (8)	tsc_DL_DTCH3 (9)	Same as downlink configuration of	downlink configuration of
RLC mode	AM	TM	TM	TM	Cell_DCH_Stand AloneSRB on	Cell_DCH_St
MAC priority	8	1	1	1	DPCH	andAloneSR
TrCH Type	HS_DSCH	DCH	DCH	DCH	DI OII	B on
TrCH identity	N/A	tsc_DL_DC H1 (6)	tsc_DL_DCH2 (7)	tsc_DL_DCH3 (8)		sCCPCH
PhyCh Type	HS-PDSCH	DPCH			Secondary CCPCH	
PhyCH identity	tsc_HSPDSCH (18)		tsc_DL_DPCH1 (26)			tsc_S_CCPC H1 (5)

8.3.37 Configuration of PS Cell_Two_DTCH_HS_CS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.4 and 6.10.2.4.5.4a. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The uplink configuration is same in clause 8.3.15 except a HS-DPCCH shall be included in the UL_DPCH and tsc_RB25 shall be used instead of tsc_RB20.

Table 113: Downlink configuration of PS Cell_Two_DTCH_HS_CS

RB Identity	tsc_RB25 (25)	tsc_RB10 (10)		
LogCh Type	DTCH	DTCH		
LogCh Identity	tsc_DL_DTCH4 (10)	tsc_DL_DTCH1 (7)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of
RLC mode	AM	TM	DPCH	Cell_DCH_StandAloneSRB
MAC priority	8	1	DFCH	on sCCPCH
TrCH Type	HS_DSCH	DCH		
TrCH identity	N/A	tsc_DL_DCH1 (6)		
PhyCh Type	HS-PDSCH		DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH (18)		tsc_DL_DPCH1 (20)	tsc_S_CCPCH1 (5)

8.3.38 Configuration of PS Cell_DCH_64kPS_RAB_SRB_HS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

Table 114: Uplink configuration of PS Cell_DCH_64kPS_RAB_SRB_HS

RB Identity	tsc_RB25		
ND Identity	(25)		
LogCh Type	DTCH		
LogCh	tsc_UL_DTC		
Identity	H1	Same as uplink configuration of	Same as uplink configuration of
identity	(7)	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAloneSRB on
RLC mode	AM	DPCH	PRACH
TrCH Type	DCH		
	tsc_UL_DCH		
TrCH identity	1		
	(1)		
PhyCh Type		DPDCH	PRACH
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 115: Downlink configuration of PS Cell_DCH_64kPS_RAB_SRB SRB

RB Identity	tsc_RB25 (25)				
LogCh Type	DTCH				
LogCh Identity	tsc_DL_DTC H1 (7)	Same as downlink configuration of Cell_DCH_StandAloneSRB on	Same as downlink configuration of Cell_DCH_StandAloneSRB on		
RLC mode	AM	DPCH	sCCPCH		
MAC priority	8	DFGIT			
TrCH Type	DCH				
TrCH identity	tsc_DL_DCH 1 (6)				
PhyCh Type		DPCH	Secondary CCPCH		
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)		

8.3.39 Configuration of PS Cell_DCH_2AM_HS_DSCH (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.26 and 6.10.2.4.1.57. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 with 2 AM RAB and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MAC and RAB test cases.

Table 116: Uplink configuration of Cell_DCH_2AM_HS_DSCH

RB Identity	tsc_RB25	tsc_RB17	Same as uplink	Same as uplink
	(25)	(17)	configuration of	configuration of
LogCh Type	DTCH	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_UL_DTCH1	tsc_UL_DTCH2	on DPCH	on PRACH
	(7)	(8)		
RLC mode	AM	AM		
TrCH Type	DCH	DCH		
TrCH identity	tsc_UL_DCH1	tsc_UL_DCH2		
	(1)	(2)		
PhyCh Type		PRACH		
PhyCH identity		tsc_PRACH1		
		(8)		

Table 117: Downlink configuration of Cell_DCH_2AM_HS_DSCH

RB Identity	tsc_RB25	tsc_RB17	Same as downlink	Same as downlink
	(25)	(17)	configuration of	configuration of
LogCh Type	DTCH	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_DL_DTCH1	tsc_DL_DTCH2	on DPCH	on sCCPCH
	(7)	(8)		
RLC mode	AM	AM		
MAC priority	8	8		
TrCH Type	HS-DSCH	HS-DSCH		
TrCH identity	0	1		
/QueueID				
PhyCh Type	PDSCH		DPCH	Secondary CCPCH
				·
PhyCH	tsc_HSPDSCH		tsc_DL_DPCH1	tsc_S_CCPCH1
identity		(18)	(26)	(5)

8.3.40 Configuration of Cell_Three_DTCH_5SRB (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.1.62. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The uplink configuration is same in clause 8.3.3 Cell_DCH_Speech.

Table 118: Downlink configuration of Cell_Three_DTCH_5SRB

RB Identity	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB5	
ND identity	(10)	(11)	(12)	(1)	(2)	(3)	(4)	(5)	
LogCh Type	DTCH	DTCH	DTCH	DCCH	DCCH	DCCH	DCCH	DCCH	Same as
LogCh	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	downlink
Identity	1	2	3	1	2	3	4	5	configuration
identity	(7)	(8)	(9)	(1)	(2)	(3)	(4)	()	of
RLC mode	TM	TM	TM	UM	AM	AM	AM	TM	Cell_DCH_Sta
MAC priority	1	1	1	1	2	3	4	5	ndAloneSRB
TrCH Type	DCH	DCH	DCH		DC	H		DCH	on sCCPCH
TrCH/ Q-	tsc_DL_DCH1	tsc_DL_DCH2	tsc_DL_DCH3		tsc_DL	_DCH5		tsc_DL_DCH6	
identity	(6)	(7)	(8)						
PhyCh Type	DPCH						Secondary		
r iiyoii i ype	DI OII						CCPCH		
PhyCH	tsc DL DPCH1						tsc_S_CCPC		
identity	(26)						H1		
identity				(2	0)				(5)

8.3.41 Configuration of Cell_Five_DTCH_CS_HS (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.5.7. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

Table 119: Uplink configuration of Cell_Five_DTCH_CS_HS and Cell_Five_DTCH_CS_HS

RB	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB25	tsc_RB17		
Identity	(10)	(11)	(12)	(25)	(17)		
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH		
LogCh	tsc_UL_D	tsc_UL_D	tsc_UL_D	tsc_UL_D	tsc_UL_D	Same as uplink	
Identity	TCH1	TCH2	TCH3	TCH4	TCH5	configuration of	Same as uplink
	(7)	(8)	(9)	(10)	(13)	Cell_DCH_Stan	configuration of
RLC mode	TM	TM	TM	AM	AM	dAloneSRB on DPCH except	Cell_DCH_Stan
MAC						TrCH Identity is	dAloneSRB on
priority	1	1	1	1	1	tsc_UL_DCH6	PRACH
TrCH Type	DCH	DCH	DCH	DCH	DCH	(21)	
TrCH	tsc_UL_D	tsc_UL_D	tsc_UL_D	tsc_UL_D	tsc_UL_D		
identity	CH1	CH2	CH3	CH4	CH5		
	(1)	(2)	(3)	(4)	(5)		
PhyCh Type	DPDCH						Secondary CCPCH
PhyCH	tsc_UL_DPCH1						tsc_S_CCPCH1
identity				(20)			(5)

Table 120: Downlink configuration of PS Cell_Five_DTCH_HS_CS and Cell_Five_DTCH_CS_HS

RB	tsc_RB25	tsc_RB17	tsc_RB10	tsc_RB11	tsc_RB12		
Identity	(25)	(17)	(10)	(11)	(12)		
LogCh Type	DTCH	DTCH	DTCH	DTCH	DTCH		
LogCh Identity	tsc_DL_D TCH4 (10)	tsc_DL_DT CH5 (13)	tsc_DL_DTC H1 (7)	tsc_DL_D TCH2 (8)	tsc_DL_DTC H3 (9)	Same as downlink configuration of	Same as downlink configuration of
RLC mode	AM	AM	TM	TM	TM	Cell DCH Stan	Cell DCH Stan
MAC priority	8	8	1	1	1	dAloneSRB on DPCH	dAloneSRB on sCCPCH
TrCH Type	HS_DSCH	HS_DSCH	DCH	DCH	DCH	DI CIT	3001 011
TrCH identity	N/A	N/A	tsc_DL_DC H1 (6)	tsc_DL_D CH2 (7)	tsc_DL_DC H3 (8)		
PhyCh Type	HS-P	DSCH		Secondary CCPCH			
PhyCH identity	_	PDSCH 8)		tsc_DL_DPCH1 (26)			

8.3.42 Configuration of Cell_DCH_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.1. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB on DTCH mapped on E-DCH in uplink and HS-DSCH in downlink is setup for the streaming or interactive or background service class (A12).

The downlink configuration is same in clause 8.3.32 Cell_DCH_HS_DSCH.

Table 121: Uplink configuration of Cell_DCH_E_HS

RB Identity	tsc_RB25	Same as uplink	Same as uplink
	(25)	configuration of	configuration of
LogCh Type	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_UL_DTCH1	on DPCH	on PRACH
Logon identity	(7)		
RLC mode	AM		
TrCH Type	E-DCH		
TrCH identity/Mac-d Flow Id	2		
PhyCh Type	E-DPDCH	DPDCH	PRACH
PhyCH identity	tsc_E_DPCH	tsc_UL_DPCH1	tsc_PRACH1
FilyCh Identity	(22)	(20)	(8)

8.3.43 Configuration of Cell_DCH_dlSRB_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.2. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A13):

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on DCH.

The downlink configuration is same in clause 8.3.32 Cell_DCH_HS_DSCH.

Table 122: Uplink configuration of Cell_DCH_dlSRB_E_HS

RB Identity	tsc_RB25 (25)	Same as uplink	
LogCh Type	DTCH	configuration of	
LogCh Identity	tsc_UL_DTCH1 (7)	Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM		PRACH
TrCH Type		E-DCH	
TrCH identity/ Mac-	2	1	
d Flow Id			
PhyCh Type	E-	DPDCH	PRACH
PhyCH identity	tsc	E_DPCH	tsc_PRACH1
Filly Childentity		(22)	(8)

8.3.44 Configuration of Cell_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.3. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A14):

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

The uplink configuration is same in clause 8.3.43 Cell_DCH_dlSRB_E_HS. In the downlink F-DPCH is configured.

tsc RB25 **RB** Identity (25)Same as downlink LogCh Type DTCH configuration of tsc_DL_DTCH1 LogCh Identity Cell_DCH_StandAloneSRB Same as downlink configuration (7)on DPCH of Cell_DCH_StandAloneSRB **RLC mode** AM on sCCPCH MAC priority 8 TrCH Type HS-DSCH TrCH identity / Mac-0 d Flow Id **PDSCH** PhyCh Type Secondary CCPCH tsc_HSPDSCH tsc_S_CCPCH1 PhyCH identity (18)(5)

Table 123: Downlink configuration of Cell_E_HS

8.3.45 Configuration of PS Cell_Four_DTCH_E_HS_CS and Cell_Four_DTCH_CS_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.4. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class:

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- CS RAB on DTCH are mapped on DCH in uplink and downlink.
- Uplink SRBs on DCCH are mapped on DCH.
- Downlink SRBs on DCCH are mapped on DCH.

The downlink configuration is same as in clause 8.3.36 Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS.

Table 124: Uplink configuration of Cell_Four_DTCH_E_HS_CS and Cell_Four_DTCH_CS_E_HS

RB Identity	tsc_RB25	tsc_RB10	tsc_RB11	tsc_RB12		
ND Identity	(25)	(10)	(11)	(12)		
LogCh Type	DTCH	DTCH	DTCH	DTCH		
	tsc_UL_DTC	tsc_UL_D	tsc_UL_D	tsc_UL_D		
LogCh Identity	H4	TCH1	TCH2	TCH3	Same as uplink	Same as uplink
	(10)	(7)	(8)	(9)	configuration of	configuration of
RLC mode	AM	TM	TM	TM	Cell_DCH_StandAlon	Cell_DCH_StandAlone
MAC priority		1	1	1	eSRB on DPCH	SRB on PRACH
TrCH Type	E-DCH	DCH	DCH	DCH		
TrCH identity /	2	tsc_UL_D	tsc_UL_D	tsc_UL_D		
Mac-d Flow Id		CH1	CH2	CH3		
Wac-a i low la		(1)	(2)	(3)		
PhyCh Type	E-DPDCH	DPDCH			PRACH	
PhyCH identity	tsc_E_DPCH		tsc_UL_DPCH1			tsc_PRACH1
FilyOff Identity	(22)			(20)		(8)

8.3.46 Configuration of Cell_2DCH_2AM_dlSRB_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.5.2. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A15):

- 2 AM PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on DCH.

The downlink configuration is same in clause 8.3.39 Cell_2DCH_2AM_HS_DSCH

Table 125: Uplink configuration of Cell_2DCH_2AM_dISRB_E_HS

RB Identity	tsc_RB25	tsc_RB17		
ND Identity	(25)	(17)	Same as uplink	
LogCh Type	DTCH	DTCH	configuration of	
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2	Cell_DCH_StandAloneSRB	Same as uplink
Identity	(7)	(8)	on DPCH	configuration of
RLC mode	AM	AM		Cell_DCH_StandAloneSRB
TrCH Type		E-DCH	on PRACH	
TrCH	2	3		
identity//Mac-			1	
d Flow Id				
PhyCh Type	E-DPDCH			PRACH
PhyCH	tsc_E_DPCH			tsc_PRACH1
identity		(22)		(8)

8.3.47 Configuration of Cell_E_HS_MAC_TM_RAB (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.11.4c, with RAB configured in TM mode on SS side. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to MAC(e/es) signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A12):

- PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on DCH
- Downlink SRBs on DCCH are mapped on DCH

Table 126: Uplink configuration of Cell_E_HS_MAC_TM_RAB

RB Identity	tsc_RB_DTCH_E_DCH_MAC1 (-21)	Same as uplink configuration of	Same as uplink configuration of
LogCh Type	DTCH	Cell_DCH_StandAloneSRB	Cell_DCH_StandAloneSRB
LogCh Identity	tsc_UL_DTCH1 (7)	on DPCH	on PRACH
RLC mode	TM	1	
TrCH Type	E-DCH		
TrCH identity/Mac-d Flow	2		
Id			
PhyCh Type	E-DPDCH	DPDCH	PRACH
PhyCH identity	tsc_E_DPCH	tsc_UL_DPCH1	tsc_PRACH1
1 myon identity	(22)	(20)	(8)

Table 127: Downlink configuration of Cell_E_HS_MAC_TM_RAB

RB Identity	tsc_RB_DTCH_E_DCH_MAC1	Same as uplink configuration	Same as uplink configuration
	(-21)	of Cell_DCH_StandAloneSRB	of Cell_DCH_StandAloneSRB
LogCh Type	DTCH	on DPCH	on PRACH
LogCh Identity	tsc_DL_DTCH1		
	(7)		
RLC mode	TM		
MAC priority	8		
TrCH Type	HS-DSCH		
TrCH identity	0		
/QueueID			
PhyCh Type	PDSCH	DPCH	Secondary CCPCH
PhyCH identity	tsc_HSPDSCH	tsc_DL_DPCH1	tsc_S_CCPCH1
	(18)	(26)	(5)

8.3.48 Configuration of Cell_2DCH_MAC_2TM_dlSRB_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.11.4d. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. (A13).

The configuration is applied to MAC(e/es) signalling tests in the DCH state where a PS RAB is setup for the interactive or background service class (A15):

- 2 TM PS RAB on DTCH is mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on DCH.

Table 128: Uplink configuration of Cell_2DCH_MAC_2TM_dlSRB_E_HS

RB Identity	tsc_RB_DTCH_E_DCH_MAC1	tsc_RB_DTCH_E_DCH_MAC2	Same as	
	(-21)	(-22)	uplink	
LogCh Type	DTCH	DTCH	configuration	
LogCh	tsc_UL_DTCH1	tsc_UL_DTCH2	of	Same as uplink
Identity	(7)	(8)	Cell_DCH_St	configuration of
RLC mode	TM	TM	andAloneSRB	Cell_DCH_StandAlo neSRB on PRACH
		E-DCH	on DPCH	
TrCH Type		HOURD OH HAOH		
TrCH	2	3		
identity//Mac-			1	
d Flow Id				
PhyCh Type	E-DPDCH			PRACH
PhyCH	tsc_E_DPCH			tsc_PRACH1
identity	(22)			(8)

Table 129: Downlink configuration of Cell_2DCH_MAC_2TM_dISRB_E_HS

RB Identity	tsc_RB_DTCH_E_DCH_MAC1 (-	tsc_RB_DTCH_E_DCH_MAC2 (-	Same as	Same as
	21)	22)	downlink	downlink
LogCh Type	DTCH	DTCH	configuration	configuration of
LogCh	tsc_DL_DTCH1	tsc_DL_DTCH2	of	Cell_DCH_Stand
Identity	(7)	(8)	Cell_DCH_St	AloneSRB on
RLC mode	TM	TM	andAloneSRB	sCCPCH
MAC priority	8	8	on DPCH	
TrCH Type	HS-DSCH	HS-DSCH		
TrCH identity	0	1		
/QueueID				
PhyCh Type	PDSCH		DPCH	Secondary
				CCPCH
PhyCH	tsc_HSPDSCH		tsc_DL_DPC	tsc_S_CCPCH1
identity	(18)		H1	(5)
			(26)	

8.3.49 Configuration of Cell_2DCH_1AM_1UM_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.6. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where a PS RAB is setup for the streaming or interactive or background service class and another UM PS Bearer is setup for conversational / unknown or speech (A16):

- 1 AM PS RAB and 1 UM PS RAB on DTCH are mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

In the downlink F-DPCH is configured.

Table 130: Uplink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB27 (27)	Same as uplink	
LogCh Type	DTCH	DTCH	configuration of	
LogCh Identity	tsc_UL_DTCH1 (7)	tsc_UL_DTCH3 (9)	Cell_DCH_StandAloneSRB on DPCH	Same as uplink configuration of
RLC mode	AM	UM		Cell_DCH_StandAloneSRB
TrCH Type		E-DCH	1	on PRACH
TrCH identity//Mac-d Flow Id	2	4	1	
PhyCh Type	E-DPDCH			PRACH
PhyCH identity		tsc_E_DF (22)	tsc_PRACH1 (8)	

Table 131: Downlink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB27 (27)		
LogCh Type	DTCH	DTCH	Same as downlink configuration of	
LogCh Identity	tsc_DL_DTCH 1 (7)	tsc_DL_DTCH3 (9)	Cell_DCH_StandAloneSRB on DPCH	Same as downlink configuration of
RLC mode	AM	UM	OII DECIT	Cell_DCH_StandAloneSRB on
MAC priority	8	8		PRACH
TrCH Type		HS-DS0	CH	
TrCH identity /	0	3	1	
Mac-d Flow Id				
PhyCh Type		PDSCI	Secondary CCPCH	
PhyCH identity		tsc_HSPD (18)	tsc_S_CCPCH1 (5)	

8.3.50 Configuration of Cell_3DCH_2AM_1UM_E_HS (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.7. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to RRC signalling tests in the DCH state where two PS RABs are setup for the streaming or interactive or background service class and another UM PS Bearer is setup for conversational / unknown or speech:

- 2 AM PS RABs and 1 UM PS RAB on DTCH are mapped on E-DCH in uplink and HS-DSCH in downlink.
- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

In the downlink F-DPCH is configured.

Table 132: Uplink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB17 (17)	tsc_RB27		
ND Identity			(27)	Same as uplink	
LogCh Type	DTCH	DTCH	DTCH	configuration of	
LogCh Identity	tsc_UL_DTCH1	tsc_UL_DTCH	tsc_UL_DTCH3	Cell_DCH_StandAlon	Same as uplink
Logon identity	(7)	2 (8)	(9)	eSRB on DPCH	configuration of
RLC mode	AM	AM	UM		Cell_DCH_StandAlon
TrCH Type		I	E-DCH		eSRB on PRACH
TrCH	2	3	4		
identity//Mac-d				1	
Flow Id					
PhyCh Type		PRACH			
PhyCH identity		tsc_PRACH1			
Phyon identity			(22)		(8)

Table 133: Downlink configuration of Cell_2DCH_1AM_1UM_E_HS

RB Identity	tsc_RB25 (25)	tsc_RB17 (17)	tsc_RB27 (27)			
LogCh Type	DTCH	DTCH	DTCH	Same as downlink		
LogCh Identity	tsc_DL_DTCH1 (7)	tsc_DL_DTCH2 (8)	tsc_DL_DTCH3 (9)	configuration of Cell_DCH_StandAlon	Same as downlink	
RLC mode	ÀM	ÀM	ÙM	eSRB on DPCH	configuration of Cell_DCH_StandAlone	
MAC priority	8	8	8		SRB on PRACH	
TrCH Type		HS	S-DSCH		SKB OIT KACIT	
TrCH identity / Mac-d Flow Id	0	2	3	1		
PhyCh Type		PDSCH				
PhyCH identity		tsc_l	HSPDSCH (18)		tsc_S_CCPCH1 (5)	

8.3.51 Configuration of Cell_Four_DTCH_CS_E_HS_5SRB (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.6.8. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The uplink configuration is same as in clause 8.3.45 Cell_Four_DTCH_E_HS_CS and Cell_Four_DTCH_CS_E_HS.

The downlink configuration is the same as in clause 8.3.52 Cell_Four_DTCH_HS_5SRB.

8.3.52 Configuration of Cell_Four_DTCH_HS_5SRB (Rel-5 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.5.8. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RB tests.

The uplink configuration is same in clause 8.3.36 Cell_Four_DTCH_HS_CS and Cell_Four_DTCH_CS_HS.

Table 134: Downlink configuration of Cell_Four_DTCH_HS_5SRB

RB Identity	tsc_RB25	tsc_RB10	tsc_RB11	tsc_RB12	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB5	
KB identity	(25)	(10)	(11)	(12)	(1)	(2)	(3)	(4)	(5)	
LogCh Type	DTCH	DTCH	DTCH	DTCH	DCCH	DCCH	DCCH	DCCH	DCCH	Same as
LogCh	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DTCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	tsc_DL_DCCH	downlink
Identity	41	1	2	3	1	2	3	4	5	configuration
identity	(107)	(7)	(8)	(9)	(1)	(2)	(3)	(4)	(5)	of
RLC mode	AM	TM	TM	TM	UM	AM	AM	AM	TM	Cell_DCH_Sta
MAC priority	8	1	1	1	1	2	3	4	5	ndAloneSRB
TrCH Type	HS-DSCH	DCH	DCH	DCH		DC	CH		DCH	on sCCPCH
TrCH/ Q-	0	tsc_DL_DCH1	tsc_DL_DCH2	tsc_DL_DCH3		tsc_DL	_DCH5		tsc_DL_DCH6	
identity	U	(6)	(7)	(8)		(1	0)		(22)	
PhyCh Type	PDSCH				חח	СП				Secondary
FilyCil Type	PDSCII		DPCH							CCPCH
PhyCH	tsc_HSPDSC		tsc DL DPCH1							tsc_S_CCPC
identity	Н					•				H1
identity	(18)				(2	0)				(5)

8.3.53 Configuration of Cell_E_HS_StandAloneSRB/ Cell_E_HS_StandAloneSRB_NoConn (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.6.1a. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to stand-alone SRB RRC signalling tests in the DCH:

- Uplink SRBs on DCCH are mapped on E-DCH.
- Downlink SRBs on DCCH are mapped on HS-DSCH.

Additionally UL-DPCCH and HS-DPCCH are configured in UL as well as F-DPCH is configured in DL.

Table 131a: Uplink configuration of Cell_E_HS_StandAloneSRB/Cell_E_HS_StandAloneSRB_NoConn

RB Identity	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	
KB identity	(1)	(2)			
LogCh Type	DCCH	DCCH	DCCH	DCCH	
LogCh Identity	tsc_UL_DCCH1	tsc_UL_DCCH2	tsc_UL_DCCH3	tsc_UL_DCCH4	Same as uplink configuration
Logon identity	(1)	(2)	(3)	(4)	of Cell_DCH_StandAloneSRB
RLC mode	UM	AM	AM	AM	on PRACH
TrCH Type		E-D	CH		
TrCH identity /	t	sc_E_DCH_MAC	_d_FlowId_DCCH		
Mac-d Flow Id		(1)		
PhyCh Type		E-DP	PRACH		
PhyCH identity		tsc_E_	tsc_PRACH1		
rifyCritidentity		(22	(8)		

Table 131b: Downlink configuration of Cell_E_HS_StandAloneSRB/ Cell_E_HS_StandAloneSRB_NoConn

RB Identity	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4				
KB Identity	(1)	(2)	(3)	(4)				
LogCh Type	DCCH	DCCH	DCCH	DCCH				
LogCh Identity	tsc_DL_DCCH tsc_DL_DCCH		tsc_DL_DCCH	tsc_DL_DCCH4	Same as downlink			
Logon identity	(1)	(2)	(3)	(4)	configuration of			
RLC mode	UM	AM	AM	AM	Cell_DCH_StandAloneSRB on PRACH			
MAC priority	1	2	3	4	FRACII			
TrCH Type		Н	S-DSCH					
TrCH identity /	1	tsc_HS_DSCH_	MAC_d_FlowId_	DCCH				
Mac-d Flow Id			(1)					
PhyCh Type		HS	Secondary CCPCH					
PhyCH identity		tsc_	tsc_S_CCPCH1					
1 Hyorr Identity			(5)					

8.3.54 MBMS channel configuration (Rel-6 or later)

The MBMS channel configurations are configured in addition to any existing configurations defined in clause 8.3.

8.3.54.1 Configuration cell_MBMS_MCCH (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.

The configuration is applied to the MBMS tests.

Table 135: cell_MBMS_MCCH

RB Identity	tsc_RB_MCCH (8)		
LogCh Type	MCCH		
LogCh Identity	tsc_MCCH1		
RLC mode	ÚM		
MAC priority	1		
TrCH Type	FACH		
TrCH identity	tsc_FACH3 (16)		
PhyCh Type	Secondary CCPCH		
PhyCH identity	tsc_S_CCPCH2 (10)		

8.3.54.2 Configuration cell_MBMS_MCCH_One_MTCH (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.

The configuration is applied to the MBMS tests.

Table 136: cell_MBMS_MCCH_One_MTCH

RB Identity	tsc_RB_MCCH	tsc_RB_MTCH1
KB Identity	(8)	(14)
LogCh Type	MCCH	MTCH
LogCh Identity	tsc_MCCH1	tsc_MTCH1
Logon identity	(1)	(1)
RLC mode	UM	UM
MAC priority	1	1
TrCH Type	FACH	FACH
TrCH identity	tsc_FACH3	tsc_FACH4
Tron identity	(16)	(17)
PhyCh Type	Secondary CCPCH	Secondary CCPCH
PhyCH identity	tsc_S_CCPCH2	tsc_S_CCPCH3
FilyChidentity	(10)	(13)

8.3.55 Configuration of PS Cell_DCH_64kPS_AM_RAB

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.1.26. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1.

The configuration is applied to MBMS tests in the DCH state where a PS RAB on DTCH is setup for the interactive or background service class.

Table 137: Uplink configuration of PS Cell_DCH_64kPS_AM_RAB

RB Identity	tsc_RB22 (22)		
LogCh Type	DTCH		
LogCh Identity	tsc_UL_DTC H2 (8)	Same as uplink configuration of Cell_DCH_StandAloneSRB on	Same as uplink configuration of Cell_DCH_StandAloneSRB on
RLC mode	AM	DPCH	PRACH
TrCH Type	DCH		
TrCH identity	tsc_UL_DCH 1 (1)		
PhyCh Type		DPDCH	PRACH
PhyCH		tsc_UL_DPCH1	tsc_PRACH1
identity		(20)	(8)

Table 138: Downlink configuration of PS Cell_DCH_64kPS_AM_RAB

RB Identity	tsc_RB22 (22)		
LogCh Type	DTCH		
LogCh Identity	tsc_DL_DTC H2 (8)	Same as downlink configuration of Cell DCH StandAloneSRB on	Same as downlink configuration of Cell DCH StandAloneSRB on
RLC mode	AM	DPCH	sCCPCH
MAC priority	1	DI GIT	3001 011
TrCH Type	DCH		
TrCH identity	tsc_DL_DCH 1 (6)		
PhyCh Type		DPCH	Secondary CCPCH
PhyCH identity		tsc_DL_DPCH1 (26)	tsc_S_CCPCH1 (5)

8.3.56 Configuration of PS Cell_MBMS_PTPRB

The configuration is based on, clause 6.10.2.4.1.58. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MBMS PTP RB test cases.

The uplink configuration is same in clause 8.3.2 Cell_DCH_StandAloneSRB.

tsc_RB21 **RB** Identity (21)LogCh **DTCH** Type tsc DL DTCH2 LogCh Same as downlink configuration of Same as downlink configuration of Identity (8)Cell_DCH_StandAloneSRB on Cell_DCH_StandAloneSRB on **RLC** mode UM **DPCH** sCCPCH MAC 1 priority TrCH Type DCH TrCH tsc DL DCH2 identity (7)PhyCh **DPCH** Secondary CCPCH Type **PhyCH** tsc_DL_DPCH1 tsc_S_CCPCH1 identity (26)(5)

Table 139: Downlink configuration of Cell_MBMS_PTPRB

8.3.57 Configuration of PS Cell MBMS PTPRB AM

The configuration is based on, clause 6.10.2.4.1.58. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to MBMS PTP RB test cases, with additional PS RAB established.

The uplink configuration is same in clause $8.3.8 \ Cell_DCH_64kPS_RAB_SRB$ and $Cell_PDCP_AM_RAB$.

tsc RB20 tsc RB21 **RB** Identity (20)(21)LogCh Type DTCH DTCH LogCh tsc DL DTCH1 tsc_DL_DTCH2 Same as downlink Same as downlink configuration Identity configuration of (7)(8)of Cell_DCH_StandAloneSRB **RLC** mode Cell_DCH_StandAloneSRB AM UM on DPCH **MAC** priority on sCCPCH 1 1 TrCH Type DCH DCH tsc_DL_DCH1 tsc_DL_DCH2 TrCH identity (6) (7)**PhyCh Type DPCH** Secondary CCPCH **PhyCH** tsc_DL_DPCH1 tsc_S_CCPCH1 identity (26)(5)

Table 140: Downlink configuration of PS Cell_MBMS_PTPRB_AM

8.3.58 Configuration of Cell_FACH_MCCH_SRB / Cell_FACH_MCCH_NoDedicated

The configuration is based on 3GPP TS 34.108 [3], clause 6.10.2.4.3.9 for downlink and 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1 for uplink. The configuration is applied to the MBMS tests related in the states CELL_FACH, CELL PCH and URA PCH.

The uplink configuration is same in clause 8.3.1 Cell_FACH

Table 138a: Downlink configuration of Cell_FACH_MCCH_NoConn / Cell_FACH_MCCH_SRB / Cell_FACH_MCCH_NoDedicated

	tsc RB20	tsc RB0	tsc RB1	tsc RB2	tsc RB3	tsc RB4	tsc_RB_MCCH	tsc_RB_		
RB Identity	(20)	(0)	(1)	(2)	(3)	(4)	(8)	(-2		
LogCh Type	DTCH	CCCH	DCCH	DCCH	DCCH	DCCH	MCCH	PC		
	tsc_DL_DT	Tsc_DL_CC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_DL_DC	tsc_MCCH1	too D/		
LogCh Identity	CH1	CH5	CH1	CH2	CH3	CH4	(1)	tsc_P(
	(7)	(5)	(1)	(2)	(3)	(4)		(1		
RLC mode	AM	UM	UM	AM	AM	AM	UM	TI		
MAC priority	1	1	2	3	4	5	1	1		
TrCH Type	FACH			FACH			FACH	PC		
TrCH identity	tsc_FACH2			tsc_FACH3	tsc_P					
Tron identity	(14)			(16)	(1:					
PhyCh Type		Secondary CCPCH								
PhyCH identity		tsc_S_CCPCH1								
FilyCiridefility					(5)					

8.3.59 Configuration of Cell_DCH_MCCH_PS

The configuration is based on 3GPP TS 34.108 [3], clause . The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to the MBMS signalling tests in the DCH state.

The uplink configuration is same in clause 8.3.8 Cell_DCH_64kPS_RAB_SRB

Table 138b: Downlink configuration of Cell_DCH_MCCH_PS

RB	tsc_RB1	tsc_RB2	tsc_RB3	tsc_RB4	tsc_RB20	tsc_RB0	tsc_RB_PCCH	tsc_RB_MCCH	Γ
Identity	(1)	(2)	(3)	(4)	(20)	(0)	(-2)	(8)	
LogCh Type	DCCH	DCCH	DCCH	DCCH	DTCH	СССН	PCCH	мссн	
LogCh	tsc_DL_DCCH1	tsc_DL_DCCH2	tsc_DL_DCCH3	tsc_DL_DCCH4	tsc_DL_DTCH1	tsc_DL_CCCH5	tsc_PCCH1	tsc_MCCH1	
Identity	(1)	(2)	(3)	(4)	(7)	(5)	(1)	(1)	
RLC mode	UM	AM	AM	AM	AM	UM	TM	UM	
MAC priority	1	2	3	4	1	1	1	1	
TrCH Type		DC	СН		DCH	FACH	PCH	FACH	
TrCH identity		tsc_DL _. (1	_		tsc_DL_DCH1 (6)	tsc_FACH1 (13)	tsc_PCH1 (12)	tsc_FACH3 (16)	ts
PhyCh Type			DPCH tsc_DL_DPCH1			Secondary CCPCH			
PhyCH identity			(26)			tsc_S_CCPCH1 (5)			

PRACH

tsc PRACH

(8)

(7)

AM

DCH

tsc_UL_DCH1

(1)

RLC mode

TrCH Type
TrCH identity

PhyCh Type

PhyCH identity

8.3.60 Configuration of PS Cell_DCH_1AM_2AM_HS_DSCH (Rel-6 or later)

The configuration is based on 3GPP TS 34.108 [3], clauses 6.10.2.4.5.10. The RB0/UM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.3.2.1.2 with 2 AM RAB and RB0/TM-CCCH is referred to 3GPP TS 34.108 [3], clause 6.10.2.4.4.1.1.1. The configuration is applied to RAB test cases.

tsc RB25 tsc RB17 tsc RB28 Same as uplink configuration **RB** Identity Same as uplink con of Cell_DCH_StandAloneSRB of Cell_DCH_Stand/ (25)(17)(28)LogCh Type DTCH DTCH DTCH on DPCH on PRACH LogCh Identity tsc UL DTCH1 tsc UL DTCH2 tsc UL DTCH3

AM

DCH

tsc_UL_DCH2

(2)

DPDCH

tsc UL DPCH1

(20)

(8)

(9)

Table 138c: Uplink configuration of Cell_DCH_1AM_2AM_HS_DSCH

Table 138d: Dow	vnlink configuration	of Call	DCH	1 Δ M	2 AM	HS	DSCH	

	I	I			
RB Identity	tsc_RB25	tsc_RB17	tsc_RB28	Same as downlink	Same as dowr
	(25)	(17)	(28)	configuration of	configuration
LogCh Type	DTCH	DTCH	DTCH	Cell_DCH_StandAloneSRB on	Cell_DCH_StandAl
LogCh Identity	tsc_DL_DTCH1	tsc_DL_DTCH2	tsc_DL_DTCH3	DPCH	on sCCPCl
	(7)	(8)	(9)		
RLC mode	AM	AM	AM		
MAC priority	8	8	8		
TrCH Type	HS-DSCH	HS-DSCH	HS-DSCH		
TrCH identity	0	2	3		
/QueueID					
PhyCh Type	PDSCH			DPCH	Secondary CC
PhyCH	tsc_HSPDSCH			tsc_DL_DPCH1	tsc_S_CCPC
identity		(18)		(26)	(5)

8.4 System information blocks scheduling

All SIBs specified in 3GPP TS 34.108 [3] are broadcast for all test cases in the present document. The repeat period of broadcasting of a complete SIB configuration is 64 frames (0.64 s) as the default configuration.

Except MIB and SB1, they have the highest scheduling rates, SIB7 has also a higher scheduling rate.

According to the default SIB contents in 3GPP TS 34.108 [3], SIB11 and SIB12 have 3 segments. SIB5/SIB5bis has 4 segments for FDD and 5 segments for 1.28 Mcps TDD. SIB 6 has 4 segments. MIB, SB1, SIB1, SIB2, SIB3, SIB4, SIB7 and SIB18 are not segmented, i.e. one segment for each. For the PDCP tests, SIB16 has 7 segments.

Use CMAC_SYSINFO_CONFIG_REQ, CMAC_SYSINFO_CONFIG_CNF and RLC_TR_DATA_REQ as interface to SS for broadcasting.

Two TSOs are defined, one for PER encoding function, the other for segmentation function. The TSOs shall be implemented in the tester.

8.4.1 Grouping SIBs for testing

The grouping of SIBs is defined in 3GPP TS 34.108 [3], clause 6.1.0a.1.

8.4.2 SIB configurations

SIB configurations are defined in 3GPP TS 34.108 [3], clause 6.1.0a.2.

8.4.3 Test SIB default schedule

The SIB default schedule is defined in 3GPP TS 34.108 [3], clause 6.1.0a.3.

8.4.3.1 Test SIB schedule for idle mode, measurement and Inter-RAT UTRAN to GERAN test cases

The SIB schedule is defined in 3GPP TS 34.108 [3], clause 6.1.0a.4.2.

8.4.4 Test SIB special schedule

8.4.4.1 Test SIB schedule for two S-CCPCH or two PRACH

The SIB schedule for two S-CCPCH or two PRACH is defined in 3GPP TS 34.108 [3], clause 6.1.0a.4.1.

8.4.4.2 Test SIB schedule for Inter-Rat Handover from GERAN to UTRAN Test

The SIB schedule for Inter-Rat Handover from GERAN to UTRAN Test is defined in 3GPP TS 34.108 [3], clause 6.1.0a.4.3.

8.4.5 Handling the transmission of SIB

According to the SIB repeat periods, SIBs need to be transmitted on a very regular basis during the operation of a test case. This transmission usually has no direct bearing on the operation of the test case, although the carried information ensures the correct configuration and operation of the UE during the test case.

To send this information repeatedly directly from each test case would make the test cases very complex to implement, difficult to understand and place real-time requirements upon them that are beyond the capabilities of most TTCN driven test engines.

Management of scheduling of System Information messages is performed by the system simulator. The SIB contents, usually determined in part by the individual tests, come from the TTCN test cases.

8.4.5.1 Delivery of System Information content

The content of the System Information messages is delivered as a fully encoded bit string to the TM-RLC SAP from the message content defined in the TTCN test case.

The IE 'SFNprime' in the SI messages is set to 0 by the TTCN, and the correct value of 'SFNprime' shall be inserted by the System Simulator prior to transmission of a SI message.

SI messages are ASN.1 packed encoded through a TTCN TSO and segmented another TTCN TSO into SIBs in the TTCN and sent only once to the TM-RLC SAP. Repetition of the SIB is the responsibility of the System Simulator lower layers.

SIBs are considered to be cached. That is, sending a SIB to the TM-RLC SAP will cause a previously sent copy of the SIB to be lost, and all future transmissions of the SIB will be the most recently sent version. This allows for the updating of System Information during the operation of a test case.

8.4.5.2 Scheduling of system Information blocks

The schedule for the transmission of SIBs is provided by the TTCN test case. It is sent using the CMAC_SYSINFO_CONFIG_REQ primitive sent to the CMAC_SAP (CMAC_PCO).

Each CMAC_SYSINFO_CONFIG_REQ primitive carries scheduling information for the next SIB sent from the TTCN. Each primitive is followed by an associated SIB. Sending two CMAC_SYSINFO_CONFIG_REQ primitives in succession may cause an unspecified result.

8.4.5.3 Example of usage

The following example shows how the MIB, SB1 and all SIBs in subclause 8.4.3 are sent to the System Simulator lower layers for broadcasting. The 1st parameter in CMAC_SYSINFO_CONFIG_REQ represents the repeat period in power of 2. The 2nd parameter represents the repetition position. Two consecutive frames represent an available repetition position.

CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (3, 0)
TM_PCO:	MIB
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (4, 1)
TM_PCO:	SB1
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 2)
TM_PCO:	SIB7
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 3)
TM_PCO:	SIB6 (segment 1 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 5)
TM_PCO:	SIB6 (segment 2 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 6)
TM_PCO:	SIB6 (segment 3 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 7)
TM_PCO:	SIB6 (segment 4 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 10)
TM_PCO:	SIB7 + SIB3 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 11)
TM_PCO:	SIB1 + SIB2 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 13)
TM_PCO:	SIB12 (segment 1 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 14)
TM_PCO:	SIB12 (segment 2 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 15)
TM_PCO:	SIB12 (segment 3 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 18)
TM_PCO:	SIB7 + SIB18 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 19)
TM_PCO:	SIB5/SIB5bis (segment 1 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 21)
TM_PCO:	SIB5/SIB5bis (segment 2 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 22)
TM_PCO:	SIB5/SIB5bis (segment 3 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 23)
TM_PCO:	SIB5/SIB5bis (segment 4 of 4)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 26)
TM_PCO:	SIB7 + SIB4 (concatenation)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 27)
TM PCO:	No segment
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 29)
TM_PCO:	SIB11 (segment 1 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 30)
TM PCO:	SIB11 (segment 3 of 3)
CMAC_PCO:	CMAC_SYSINFO_CONFIG_REQ (6, 31)
TM_PCO:	SIB11 (segment 3 of 3)
11.1_1 00.	51511 (55511611t 5 01 5)

8.5 Security in testing

The security functions at the SS side are implemented in RLC and MAC layers. When the AM or UM RLC entities and a MAC(d) entity are created, the TTCN will download a security context for each CN domain used. The two ASPs CMAC_SecurityMode_Config_REQ and CRLC_SecurityMode_Config_REQ configures the SS security contexts and

associate the contexts to the created entities. The SS shall support one activate security contexts and one context pending activation for each CN domain.

A security context at the SS consists of the security parameter START, 20 bits long and a pair of integrity key and a ciphering key, each 128 bits long. All these security parameters belong to a CS or a PS domain. The SS shall have the ability to store these values till the new values are downloaded and activated. $START_{cs}$ is used for initialization of all counters-C and counters-I (32 bits long each) of all DL and UL radio bearers for ciphering and integrity protection in the CS domain. The same is for $START_{ps}$ in the PS domain. The TTCN downloads the new START value whenever it is received from the UE. In the case of a succeeded authentication procedure, the START value is reset to zero by the START value is reset to zero by the START value.

Once the START is downloaded the SS will, according to the activation time, initialize the 20 most significant bits of the RRC HFN (for integrity protection), the RLC HFN (for ciphering) and the MAC-d HFN (for ciphering) to the START value of the corresponding service domain; the remaining bits are initialized to 0.

Upon the concerned RLC entities and the MAC(d) entity release in the SS, the associated security contexts are no longer used and shall be removed as well. The RLC and the MAC(d) entities are addressed by the TTCN with the cell id = -1.

8.5.1 Authentication

A GMM or MM authentication test step makes use of a number of TSOs to generate an authentication vector:

$$AV := \{RAND, XRES, CK, IK, AUTN\}$$

If the UE has valid authentication parameters (CKSN/KSI), for the respective domain, use of the Authentication procedure after an INITIAL DIRECT TRANSFER message is optional. Authentication in this case will be left to the test case implementation and need not be specified in the prose. However, in the case where the UE does not have valid authentication parameters the Authentication procedure shall be performed.

8.5.2 Ciphering

The ciphering in the SS is activated through the ASP CRLC_Ciphering_Activate_REQ for the AM or UM mode and through CMAC_Ciphering_Activate_REQ for the TM mode.

A PIXIT parameter px_CipheringOnOff indicates whether all the tests are performed under ciphering activated or not. If ciphering should be off at the test execution, the ciphering algorithm in IE ciphering ModeInfo is set to uea0 (no encryption). The UE under test is informed about the SS ciphering capability via IE cipheringAlgorithmCap set to uea0.

Table 141 gives the mapping of the RB id and the bearer value used in the ciphering calculation at the SS side.

Table 141: Mapping between RB identity in ASP and BEARER value in the ciphering calculation

RB identity		RLC	BEARER		Comments
(TTCN constant)	Direction	mode	value	Type	- Commonto
-1 (tsc_RB_BCCH)	downlink	TM	N/A		No ciphering applicable
-2 (tsc_RB_PCCH)	downlink	TM	N/A		No ciphering applicable
-3 (tsc_RB_BCCH_FACH)	downlink	TM	N/A		No ciphering applicable
-4 (tsc_RB_2ndPCCH)	downlink	TM	N/A		No ciphering applicable
-5 (tsc_RB_2ndCCCH)	uplink	TM	N/A	5.5	No ciphering applicable
-6 (tsc_RB_MTCH_RLC_TR)	downlink	TM	N/A	RAB	For RLC MTCH test, no ciphering applicable
-8 (tsc_RB_MCCH_RLC_TR) -10 (tsc_RB_UM_7_RLC)	downlink	TM TM	N/A N/A	DAD	No ciphering applicable For UM RLC tests using 7 bit Lis, no ciphering used
-10 (tsc_RB_UM_7_RLC) -10 (tsc_RB_UM_7_RLC)	downlink uplink	TM	N/A	RAB RAB	For UM RLC tests using 7 bit Lis, no ciphering used
-11 (tsc_RB_UM_15_RLC)	downlink	TM	N/A	RAB	For UM RLC tests using 15 bit LIs, no ciphering used
-11 (tsc_RB_UM_15_RLC)	uplink	TM	N/A	RAB	For UM RLC tests using 15 bit Lls, no ciphering used
-12 (tsc_RB_AM_7_RLC)	downlink	TM	N/A	RAB	For AM RLC tests using 15 bit Lls, no ciphering used
-12 (tsc_RB_AM_7_RLC)	uplink	TM	N/A	RAB	For AM RLC tests using 7 bit Lls, no ciphering used
-13 (tsc_RB_AM_15_RLC)	downlink	TM	N/A	RAB	For AM RLC tests using 15 bit Lls, no ciphering used
-13 (tsc_RB_AM_15_RLC)	uplink	TM	N/A	RAB	For AM RLC tests using 15 bit LIs, no ciphering used
-14 tsc_RB_DCCH_FACH_MAC)	downlink	TM	N/A	SRB3	MAC testing no ciphering used
-14 (tsc_RB_DCCH_FACH_MAC)	uplink	TM	N/A	SRB3	MAC testing no ciphering used
-15 (tsc_RB_DCCH_DCH_MAC) -15 (tsc_RB_DCCH_FACH_MAC)	downlink uplink	TM TM	N/A N/A	SRB3 SRB3	MAC testing no ciphering used MAC testing no ciphering used
-16 (tsc_RB3_DCCH_RRC)	uplink	AM	2	SRB3	IMAC testing no ciphening used
-18 (tsc_RB_CCCH_FACH_MAC)	downlink	TM	N/A	SRB0	No ciphering applicable
-19 (tsc_RB_BCCH_FACH_RAB)	downlink	TM	N/A	SRB	No ciphering applicable
-20 (tsc_RB_DTCH_E_DCH_MAC)	uplink	TM	N/A	RAB	MAC testing no ciphering used
-21 (tsc_RB_DTCH_E_DCH_MAC1)	uplink	TM	N/A	RAB	MAC testing no ciphering used
-22 (tsc_RB_DTCH_E_DCH_MAC2)	uplink	TM	N/A	RAB	MAC testing no ciphering used
-25 (tsc_RB_MAC_HS)	downlink	TM	N/A	RAB	MAC/RLC testing no ciphering used
-25 (tsc_RB_MAC_HS)	uplink	TM	N/A	RAB	MAC/RLC testing no ciphering used
-26 (tsc_RB_MAC_ehs_26)	downlink	TM	N/A	RAB	MACehs testing no ciphering used
-26 (tsc_RB_MAC_ehs_26)	Uplink	TM	N/A	RAB	MACehs testing no ciphering used
-27 (tsc_RB_MAC_ehs_27) -27 (tsc_RB_MAC_ehs_27)	downlink downlink	TM TM	N/A N/A	RAB RAB	MACehs testing no ciphering used MACehs testing no ciphering used
0 (tsc_RB0)	uplink	TM	N/A	SRB0	No ciphering applicable
0 (tsc_RB0)	downlink	UM	N/A	SRB0	No ciphering applicable
1 (tsc_RB1)	uplink	UM	0	SRB1	Tro opnomig applicable
1 (tsc_RB1)	downlink	UM	0	SRB1	
2 (tsc_RB2)	uplink	AM	1	SRB2	
2 (tsc_RB2)	downlink	AM	1	SRB2	
3 (tsc_RB3)	uplink	AM	2	SRB3	
3 (tsc_RB3)	downlink	AM	2	SRB3	
4 (tsc_RB4)	uplink	AM	3	SRB4	
4 (tsc_RB4) 5 (tsc_RB5)	downlink uplink	AM TM	3 4	SRB4 SRB	DCCH
5 (tsc_RB5) 5 (tsc_RB5)	downlink	TM	4	SRB	DCCH
6	uplink	1 101	5	OND	Not used currently
6	downlink		5		Not used currently
7	uplink		6		Not used currently
7	downlink		6		Not used currently
8	uplink	-	7	-	Not used currently
8 (tsc_RB_MCCH)	downlink	UM	7		No ciphering applicable
9	uplink		8		Not used currently
9 (tsc_RB_MSCH)	downlink	T1 4	8	D A D #4 4	No ciphering applicable
10 (tsc_RB10) 10 (tsc_RB10)	uplink downlink	TM TM	9	RAB#1-1 RAB#1-1	
11 (tsc_RB10) 11 (tsc_RB11)	uplink	TM	10	RAB#1-1	
11 (tsc_RB11) 11 (tsc_RB11)	downlink	TM	10	RAB#1-2	
12 (tsc_RB12)	uplink	TM	11	RAB#1-3	
12 (tsc_RB12)	downlink	TM	11	RAB#1-3	
13 (tsc_RB13)	uplink	TM	12	RAB#2	
13 (tsc_RB13)	downlink	TM	12	RAB#2	
14	uplink		13		Not used currently
14 (tsc_MTCH1)	downlink	UM	13		No ciphering
15	uplink		14		Not used currently
15 (tsc_MTCH2)	downlink	UM	14		No ciphering
16	uplink	1 18 4	15		Not used currently
16 (tsc_MTCH3) 17 (tsc_RB17)	downlink uplink	UM AM	15 16	RAB#2	No ciphering
11 (ISC_ND11)	upiirik	AIVI	10	RAD#Z	

RB identity (TTCN constant)	Direction	RLC mode	BEARER value	Туре	Comments
17 (tsc_RB17)	downlink	AM	16	RAB#2	
20 (tsc_RB20)	uplink	AM	19	RAB#1	
20 (tsc_RB20)	downlink	AM	19	RAB#1	
21 (tsc_RB21)	uplink	UM	20	RAB#2	
21 (tsc_RB21)	downlink	UM	20	RAB#2	
22 (tsc_RB22)	uplink	AM	21	RAB#2	
22 (tsc_RB22)	downlink	AM	21	RAB#2	
23 (tsc_RB23)	uplink	AM	22	RAB#2	
23 (tsc_RB23)	downlink	AM	22	RAB#2	
24 (tsc_RB24)	uplink	AM	23	RAB#2	
24 (tsc_RB24)	downlink	AM	23	RAB#2	
25 (tsc_RB25)	uplink	AM	24	RAB#1	
25 (tsc_RB25)	downlink	AM	24	RAB#1	
26 (tsc_RB26)	uplink	UM	25	RAB#1	MAC testing no ciphering used
26 (tsc_RB26)	downlink	UM	25	RAB#1	MAC testing no ciphering used
27 (tsc_RB27)	uplink	UM	26	RAB#2	MAC testing no ciphering used
27 (tsc_RB27)	downlink	UM	26	RAB#2	MAC testing no ciphering used
28 (tsc_RB28)	uplink	AM	27	RAB#3	MAC testing no ciphering used
28 (tsc_RB28)	downlink	AM	27	RAB#3	MAC testing no ciphering used
29	uplink		28		Not used yet currently
29 (tsc_RB29)	downlink	AM	28	SRB0	No ciphering applicable
30	uplink		29		Not used yet currently
30 (tsc_RB30)	downlink	UM	N/A		CTCH FACH no ciphering used
31	uplink		30		Not used yet currently
31 (tsc_RB31)	downlink	UM	N/A		CTCH FACH no ciphering used
32	uplink		31		Not used yet currently
32	downlink	•	31		Not used yet currently

8.5.3 Integrity

The integrity protection in the SS is activated through the ASP CRLC_Integrity_Activate_REQ for all SRB.

MAC-I (MessageAuthenticationCode) is calculated by the SS. If the integrity protection is not yet started, the "integrity protection info" IE is omitted in TTCN. If integrity protection is started the TTCN includes the "integrity protection info" IE with all bits set to "0". The SS takes care of all the necessary initialization and calculation on SRBs.

Once integrity is started, the SS initializes and calculates a correct Message Authentication Code, overrides the initial value all bits "0" and inserts a corresponding RRC message sequence number into the IntegrityCheckInfo for all DL DCCH messages. In UL, the SS shall check the received MessageAuthenticationCode. If it is wrong, the ASP CRLC_Integrity_Failure_IND will report having received an UL message with integrity error. If it is correct SS forwards the received messages to the TTCN.

In addition, CRLC_MAC_I_Mode_REQ can be used to force the SS generate wrong DL MAC-I on a specific SRB for the integrity error handling test.

8.5.4 Test security scenarios

Five basic test scenarios are presented in the present document. The corresponding core spec references are found in 3GPP TS 25.331 [21], clauses 8.1.12, 8.2.2.2, 8.5.10.1, 8.5.10.2, 8.6.3.4, 8.6.3.5, 8.6.4.3 and 8.6.4.8.

Start security;

RB setup;

AM RB reconfiguration;

Security modification;

SRNS relocation;

Modification of RLC size of AM RB during RB reconfiguration;

Cell/URA update;

InterRAt HO to UTRAN.

As Default, the 1st three basic scenarios can be subdivided into:

Start integrity without ciphering start;

Start integrity and ciphering at the same time.

Regarding the simultaneous SRNS relocation, the security scenarios at the relocation are split into:

No security configuration modification;

Modification of integrity (FRESH) without ciphering configuration change;

Modification integrity FRESH and ciphering algorithm;

A security modification pending at the SRNS relocation.

This clause shows the procedures how the security ASP applied to the SS configurations at the different security test scenarios.

8.5.4.1 Start security function

CIPHERING_STATUS = NotStarted for the CN domain concerned.

8.5.4.1.1 Start integrity protection without start of ciphering

```
INTEGRITY_PROTECTION Status = NotStarted.

SECURITY MODE COMMAND with "Integrity protection mode info" IE containing integrityProtectionModeCommand = Start, no "Ciphering mode info" IE
```

1 Before sending SECURITY MODE COMMAND (SMC)

2 Send SECURITY MODE COMMAND

3 After receiving SECURITY MODE COMPLETE

```
CRLC_Integrity_Activate_REQ (CN domain concerned)
    ul_IntegProtActivationInfo = value in "Uplink integrity protection activation time"
    (except RB2) received from SECURITY MODE COMPLETE
```

8.5.4.1.2 Start both integrity protection and ciphering

```
INTEGRITY_PROTECTION Status = NotStarted.

SECURITY MODE COMMAND with "Integrity protection mode info" IE containing integrityProtectionModeCommand = Start, and "Ciphering mode info" IE containing cipheringModeCommand = Start/Restart (algorithm UEA0 or UEA1)
```

1 Before sending SECURITY MODE COMMAND message

```
CRLC SecurityMode Config REQ
        startValue = value most recently received or 0 ( new key)
        cipheringKey = value maintained by TTCN
        integrityKey = value maintained by TTCN
        cn_DomainIdentity = CS or PS
CRLC_SequenceNumber_REQ
       Get current RLC SN of all SRB for calculating suitable down link activation time
CRLC Suspend REQ
     - Suspend all signalling radio bearers except RB2. Optionally an SS may start immediate
    suspension of processing of data PDUs in the UL. The UL control PDUs and Piggybacked Status
        may optionally processed.
CRLC Ciphering Activate REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (algorithm)
        rb_DL_CiphActivationTimeInfo = calculated activation time
        incHFN = NotInc
CRLC_SetRRC_MessageSN_REQ (SN=0)
        -- Downlink RRC message sequence number set to 0
```

```
CRLC_Integrity_Activate_REQ (CN domain concerned)
    integrityProtectionModeCommand = startIntegrityProtection (FRESH)
    integrityProtectionAlgorithm = selected value
        (downlink integrity protection starts immediate)

CRLC_Integrity_Activate_REQ (CN domain concerned)
        ul_IntegProtActivationInfo = 0 (RB2 only)

CRLC_ProhibitRLC_Ack_REQ
        mode = prohibit (RB3 only)
-- An SS supporting suspension of UL data PDUs may provide a dummy CRLC_ProhibitRLC_Ack_CNF
```

2 Send SECURITY MODE COMMAND

3 After receiving SECURITY MODE COMPLETE

8.5.4.1.3 Void

8.5.4.2 RB setup

```
INTEGRITY_PROTECTION Status = Started.
Condition: "RAB information for setup" IE included in RADIO BEARER SETUP
```

8.5.4.2.1 AM / UM RB

- 1 Sending the RADIO BEARER SETUP message.
- 2 Configuring the RB.
- 3 After receiving RADIO BEARER SETUP COMPLETE.

8.5.4.2.1.1 Ciphering not started

8.5.4.2.1.2 Ciphering started

```
CIPHERING_STATUS = Started for the CN domain concerned

CRLC_SecurityMode_Config_REQ

startValue = value most recently received
cipheringKey = value maintained by TTCN
cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate_REQ (CN domain concerned)
cipheringModeCommand = Start/Restart (algorithm)
rb_DL_CiphActivationTimeInfo = 0 (from the first block)
incHFN = NotInc
```

8.5.4.2.2 TM RB

Enter Cell_DCH,
no TM RB established before,
"COUNT-C activation time" IE included in RADIO BEARER SETUP COMPLETE message.

8.5.4.2.2.1 Ciphering not started

CIPHERING_STATUS = NotStarted for the CN domain concerned,

1 Send the RADIO BEARER SETUP message

2 Configuring the RB

3 After receiving RADIO BEARER SETUP COMPLETE

8.5.4.2.2.2 Ciphering started

CIPHERING STATUS = Started for the CN domain concerned,

1 Sending RADIO BEARER SETUP

2 Configuring the RB

```
CMAC_SecurityMode_Config_REQ
    startValue = value most recently received
    cipheringKey = value maintained by TTCN
    cn_DomainIdentity = CS or PS

CMAC_Ciphering_Activate_REQ (CN domain concerned)
    incHFN = NotInc
    cipheringModeCommand = Start/Restart (algorithm)
    activationTimeForDPCH = value in "Activation time" of the RB
```

3 After receiving RADIO BEARER SETUP COMPLETE message

8.5.4.3 RB Reconfiguration for AM RAB modification of RLC size

```
CIPHERING_STATUS = Started for the CN domain concerned,
"RB mapping info" IE, changeing AM RB RLC size, is included in
CELL UPDATE CONFIRM,
RADIO REARER RECONFIGURATION,
RADIO BEARER RELEASE
```

8.5.4.3.1 "RB mapping info" in CELL UPDATE CONFIRM

After sending the CELL UPDATE CONFIRM message, re-establish the RB and re-configure the RB with new RLC size and re-initialize COUNT-C for the RB:

```
CRLC_Config_REQ
Release the concerned RB

CRLC_Config_REQ
Setup the concerned RB (new RLC size)

CRLC_SecurityMode_Config_REQ
startValue = value received in the CELL UPDATE message
integrityKey = value maintained by TTCN
cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate_REQ
cipheringModeCommand = Start/Restart (existing algorithm)
rb_DL_CiphActivationTimeInfo = now
incHFN = NotInc

CRLC_Ciphering_Activate_REQ
rb_UL_CiphActivationTimeInfo = now
incHFN = NotInc
```

8.5.4.3.2 "RB mapping info" in RB RECONFIGURATION / RELEASE

After receiving the reconfiguration complete message, re-establish the RB and re-configure the RB with new RLC size and re-initialize COUNT-C for the RB:

8.5.4.4 Security modification

Updating security keys is the scenario in this clause.

```
INTEGRITY_PROTECTION STATUS = Started
SECURITY MODE COMMAND contains "Ciphering mode info" IE and/or "Integrity protection mode info" IE
```

8.5.4.4.1 Integrity started, ciphering not started

```
CIPHERING_STATUS = NotStarted for the CN domain concerned
SECURITY MODE COMMAND with "Integrity protection mode info" IE containing
integrityProtectionModeCommand = modify, but "Ciphering mode info" IE absent the same CN domain as
in the previous SMC to start integrity protection.
```

1 Before sending SECURITY MODE COMMAND message

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
    cn_DomainIdentity = CS or PS

CRLC_RRC_MessageSN_REQ
    -- Get current RRC Message SN for calculation of DL activation time

CRLC_Integrity_Activate_REQ (CN domain concerned)
    integrityProtectionModeCommand = modify
    dl_IntegrityProtActivationInfo = now (SRB2), calculated value or a pending activation time set by previous security mode control procedure (SRB2 other than SRB2)

CRLC_Integrity_Activate_REQ (CN domain concerned, RB2)
    ul_IntegrityProtActivationInfo = now
```

2 Sending SECURITY MODE COMMAND message

3 After receiving SECURITY MODE COMPLETE

```
CRLC_Integrity_Activate_REQ (CN domain concerned)
    ul_IntegProtActivationInfo = value in "Uplink integrity protection activation time"
    (except RB2)
```

8.5.4.4.2 Integrity and ciphering started

```
CIPHERING_STATUS = Started for the CN domain concerned
SECURITY MODE COMMAND contains

"Integrity protection mode info" IE with integrityProtectionModeCommand = modify,

"Ciphering mode info" IE with cipheringModeCommand = Start/Restart.
```

1 Before sending SECURITY MODE COMMAND message

```
CRLC_SecurityMode_Config_REQ
        startValue = 0 (new key)
        integrityKey = new key
cipheringKey = new key
        cn_DomainIdentity = CS or PS
if TM RB exist
   CMAC SecurityMode Config REQ
        startValue = 0 ( new kev)
        cipheringKey = new key
        integrityKey = new key
        cn DomainIdentity = CS or PS
CRLC SequenceNumber REQ
     - Get current RLC SN for calculating suitable down link activation time
CRLC_Suspend_REQ
     -- Optionally an SS may start immediate suspension of processing of data PDUs in the UL. The
    UL control PDUs and Piggybacked Status may optionally be processed.
CRLC Ciphering Activate REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (existing algorithm)
        rb DL CiphActivationTimeInfo = calculated activation time
        incHFN = NotInc
CRLC RRC MessageSN REQ
     - Get current RRC message SN for calculating suitable DL activation time
CRLC_Integrity_Activate_REQ (CN domain concerned)
        integrityProtectionModeCommand = modify
       dl_IntegrityProtActivationInfo = now (SRB2), calculated value or a pending activation
       time set by previous security mode control procedure (SRB other than SRB2)
CRLC_Integrity_Activate_REQ (CN domain concerned, RB2)
       ul IntegrityProtActivationInfo = now
if TM RB exist
    CPHY_Frame_Number_REQ
         -Get current CFN for calculating suitable activation time for TM RB
    CMAC Ciphering Activate REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (existing algorithm)
        activationTimeForDPCH = calculated activation time
        incHFN = IncPerCFN_Cycle
CRLC_ProhibitRLC_Ack_REQ
       mode = prohibit (RB3 only)
    -- An SS supporting suspension of UL data PDUs may provide a dummy CRLC_ProhibitRLC Ack CNF
```

2 Sending SECURITY MODE COMMAND message

3 After receiving SECURITY MODE COMPLETE

8.5.4.5 SRNS relocation

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

INTEGRITY PROTECTION Status = Started
```

8.5.4.5.1 Void

8.5.4.5.2 Presence of "Integrity protection mode info" but absence of "Ciphering mode info"

SRNS relocation related messages listed contains "Integrity protection mode info" but does not have "Ciphering mode info" IE.

SRNS relocation related message with "Integrity protection mode info" IE containing integrityProtectionModeCommand = Start, but no "Ciphering mode info" IE (no ciphering configuration change).

8.5.4.5.2.1 No security configuration pending

No security configuration pending triggered by previous SECURITY MODE COMMAND.

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = OMIT (no COUNT-I re-initialization)
    integrityKey = OMIT or value maintained by TTCN (no key change)
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ (CN domain concerned)
    integrityProtectionModeCommand = Start (FRESH)
    integrityProtectionAlgorithm = selected value
    -- downlink integrity protection starts immediately

CRLC_Integrity_Activate_REQ (CN domain concerned)
    ul IntegProtActivationInfo = value (now)
```

2 Sending one of the SRNS relocation related messages

3 Re-establishing RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber_REQ
CRLC SequenceNumber CNF
       newHFN = MAX(HFN of DL COUNT-C of RB2, HFN of UL COUNT-C of RB2) + 1
CRLC Config REQ
    -- Release RB2
CRLC_Config_REQ
    -- Setup RB2
CRLC SecurityMode Config REQ
       startValue = newHFN
        cn\_DomainIdentity = CS or PS concerned
CRLC_Ciphering_Activate_REQ (CN domain concerned)
        if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
CRLC_Ciphering_Activate_REQ (CN domain concerned)
        rb UL CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receiving the response message

5 Re-establishing all RBs and SRBs (except SRB2) and re-initialize COUNT-C for all RBs and SRBs (except SRB2)

```
CRLC_Config_REQ
     - Release all RBs and all SRBs (except SRB2)
CRLC Config REQ
     - Setup all RB's and all SRB's (except RB2)
{\tt CRLC\_SecurityMode\_Config\_REQ}
        startValue = value received in the response message
        integrityKey = value maintained by TTCN
        cn DomainIdentity = CS or PS
CRLC_Ciphering_Activate_REQ
        if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
           cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (except SRB2)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CiphActivationTimeInfo = now (except SRB2)
        incHFN = NotInc
```

8.5.4.5.2.2 Pending security configuration (new keys)

A pending security configuration is triggered by the previous SECURITY MODE COMMAND (new Key).

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber REQ
CRLC_SequenceNumber_CNF
       HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
        Release RB2
CRLC Config REQ
        Setup RB2
CRLC_SecurityMode_Config_REQ
        startValue = HFN calculated above
        cipheringKey = new key
       cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
{\tt CRLC\_Ciphering\_Activate\_REQ}
        rb_UL_CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC_Config_REQ
        Release all RB's and SRB's (except RB2)
CRLC_Config_REQ
       Setup all RB's and SRB's (except RB2)
CRLC_SecurityMode_Config_REQ
        startValue = value received in the response message
        integrityKey = new key
       cipheringKey = new key
       cn DomainIdentity = CS or PS
CRLC_Ciphering_Activate _REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING_STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
```

6 Re-initialize COUNT-I for all RB's and SRB's (except RB2)

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul IntegProtActivationInfo = value (now)
```

8.5.4.5.2.3 Pending security configuration (no new keys)

A pending security configuration is triggered by the previous SECURITY MODE COMMAND (no new keys).

1 Before sending one of the SRNS relocation related messages

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber REQ
CRLC SequenceNumber CNF
       HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC_Config_REQ
       Setup RB2
CRLC_SecurityMode_Config_REQ
       startValue = HFN calculated above
       cn DomainIdentity = CS or PS
CRLC_Ciphering_Activate_REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb_UL_CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

274

```
CRLC Config REQ
       Release all RB's and SRB's (except RB2)
CRLC_Config_REQ
       Setup all RB's and SRB's (except RB2)
CRLC_SecurityMode_Config_REQ
        startValue = value received in the response message
        integrityKey = value maintained by TTCN
       cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
        if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CiphActivationTimeInfo = now (except RB2)
        incHFN = NotInc
```

6 Re-initialize COUNT-I for all RB's and SRB's (except RB2)

8.5.4.5.3 Presence of "Integrity protection mode info" and "Ciphering mode info" IE

```
CIPHERING_STATUS = Started for the CN domain concerned,
SRNS relocation related message with "Integrity protection mode info" IE containing
integrityProtectionModeCommand = Start, and "Ciphering mode info" IE containing cipheringModeCommand
= Start/Restart (change ciphering algorithm, no "Radio bearer downlink ciphering activation time
info")
```

8.5.4.5.3.1 No security configuration pending

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = OMIT (no COUNT-I re-initialization)
    integrityKey = OMIT or value maintained by TTCN (no key change)
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    SS_IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber_REQ
CRLC_SequenceNumber_CNF
        HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC Config REQ
       Setup RB2
CRLC_SecurityMode_Config_REQ
        startValue = HFN calculated above
       cn_DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
       if CIPHERING_STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
           cipheringModeCommand = Start/Restart (existing algorithm)
        rb DL CiphActivationTimeInfo = now (RB2 only)
       incHFN = NotInc
CRLC_Ciphering_Activate_REQ
        rb_UL_CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC_Config_REQ
Release all RB's and SRB's (except RB2)

CRLC_Config_REQ
Setup all RB's and SRB's (except RB2)

CRLC_SecurityMode_Config_REQ
startValue = value received in the response message integrityKey = value maintained by TTCN
cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate_REQ
cipheringModeCommand = Start/Restart (new algorithm)
rb_DL_CiphActivationTimeInfo = now (except RB2)
incHFN = NotInc

CRLC_Ciphering_Activate_REQ
rb_UL_CiphActivationTimeInfo = now (except RB2)
incHFN = NotInc
```

8.5.4.5.3.2 Pending security configuration (new keys)

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
        cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
        SS_IntegrityProtectionModeCommand = Start (FRESH)
        IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
        ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber REQ
        CRLC_SequenceNumber_CNF
        HFN = MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC Config REQ
       Setup RB2
CRLC SecurityMode Config REQ
       startValue = HFN calculated above
        cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ
       cipheringModeCommand = NULL (no ciphering status change)
       rb_DL_CiphActivationTimeInfo = now (RB2 only)
       incHFN = NotInc
CRLC_Ciphering_Activate_REQ
        rb_UL_CipheringActivationTimeInfo = now (RB2 only)
       incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

6 Re-initialize COUNT-I for all RBs and SRBs (except RB2)

```
CRLC_SecurityMode_Config_REQ
    startValue = 0 (new key)
    integrityKey = new key
    cn_DomainIdentity = CS or PS
CRLC_Integrity_Activate_REQ
    IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)
CRLC_Integrity_Activate_REQ
    ul IntegProtActivationInfo = value (now)
```

8.5.4.5.3.3 Pending security configuration (no new key)

1 Before sending one of the SRNS relocation related messages

```
CRLC_SecurityMode_Config_REQ
    startValue = OMIT (no COUNT-I re-initialization)
    integrityKey = OMIT or value maintained by TTCN (no key change)
    cn_DomainIdentity = CS or PS

CRLC_Integrity_Activate_REQ
    SS_IntegrityProtectionModeCommand = Start (FRESH)
    IntegrityProtectionAlgorithm = selected value (downlink integrity protection starts immediately)

CRLC_Integrity_Activate_REQ
    ul_IntegProtActivationInfo = value (now)
```

2 Send one of the SRNS relocation related messages

3 Re-establish RB2 and re-initialize COUNT-C for RB2

```
CRLC SequenceNumber REQ
        CRLC SequenceNumber CNF
       HFN \stackrel{-}{=} MAX(HFN of DL/UL COUNT-C of RB2) + 1
CRLC Config REQ
       Release RB2
CRLC_Config_REQ
       Setup RB2
CRLC_SecurityMode_Config_REQ
        startValue = HFN calculated above
       n DomainIdentity = CS or PS
CRLC_Ciphering_Activate_REQ
        if CIPHERING STATUS= NotStarted
            cipheringModeCommand = NULL (no ciphering)
        if CIPHERING STATUS = Started
            cipheringModeCommand = Start/Restart (existing algorithm)
        rb_DL_CiphActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
CRLC Ciphering Activate REQ
        rb UL CipheringActivationTimeInfo = now (RB2 only)
        incHFN = NotInc
```

4 Receive the response message

5 Re-establish all RBs and SRBs (except RB2) and re-initialize COUNT-C for all RBs and SRBs (except RB2)

```
CRLC_Config_REQ
Release all RB's and SRB's (except RB2)

CRLC_Config_REQ
Setup all RB's and SRB's (except RB2)

CRLC_SecurityMode_Config_REQ
startValue = value received in the response message integrityKey = value maintained by TTCN
cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate _REQ
cipheringModeCommand = Start/Restart (new algorithm)
rb_DL_CiphActivationTimeInfo = now (except RB2)

CRLC_Ciphering_Activate _REQ
rb_UL_CiphActivationTimeInfo = now (except RB2)
```

6 Re-initialize COUNT-I for all RBs and SRBs (except RB2)

8.5.4.6 CELL/URA update

8.5.4.6.1 RLC re-establish (RB2, RB3, RB4)

"RLC re-establish (RB2, RB3, RB4)" in CELL UPDATE CONFIRM message is set to TRUE CIPHERING_STATUS = Started for the CN domain concerned

1. After sending CELL UPDATE CONFIRM message, re-establish the RB2, RB3 and RB4 (if established)

8.5.4.6.2 RLC re-establish (RAB)

"RLC re-establish (RB5 and upwards)" in CELL UPDATE CONFIRM message is set to TRUE CIPHERING_STATUS = Started for the CN domain concerned

1. After sending CELL UPDATE CONFIRM message, re-establish the RAB

```
CRLC_SecurityMode_Config_REQ
    startValue = value received from CELL UPDATE message
    cipheringKey = value maintained by TTCN
    cn_DomainIdentity = CS or PS

CRLC_Ciphering_Activate_REQ (CN domain concerned)
    cipheringModeCommand = Start/Restart (existing algorithm)
    rb_DL_CiphActivationTimeInfo = now (RB5 and upwards)
    incHFN = NotInc

CRLC_Ciphering_Activate_REQ (CN domain concerned)
    rb_UL_CipheringActivationTimeInfo = now (RB5 and upwards)
    incHFN = NotInc
```

8.5.4.7 Inter RAT handover to UTRAN

8.5.4.7.1 ciphering has not been activated

ciphering has not been started in the radio access technology from which inter RAT handover is performed. TM mode radio bearer will be established in the UTRAN.

1. Sending HANDOVER TO UTRAN COMMAND in a RAT different from UTRAN

2. After receiving HANDOVER TO UTRAN COMPLETE message

```
CMAC_SecurityMode_Config_REQ
       startValue = value received in HANDOVER TO UTRAN COMPLETE message
       cn DomainIdentity = CS or PS
CMAC_Ciphering_Activate_REQ (CN domain concerned)
       incHFN = NotInc
       cipheringModeCommand = NULL
       activationTimeForDPCH = now
CRLC SecurityMode Config REQ
       startValue = value received in HANDOVER TO UTRAN COMPLETE
       cn DomainIdentity = CS or PS
CRLC Ciphering Activate REQ (CN domain concerned)
       cipheringModeCommand = NULL
       rb_DL_CiphActivationTimeInfo = now (RB1, RB2, RB3, RB4)
       rb_UL_CipheringActivationTimeInfo = now (RB1, RB2, RB3, RB4)
       incHFN = Inc
```

8.5.4.7.2 ciphering has been activated

ciphering has been started in the radio access technology from which inter RAT handover is performed. TM mode radio bearer will be established in the UTRAN.

1. Before sending HANDOVER TO UTRAN COMMAND

```
CRLC SecurityMode Config REQ
            startValue = "START" value included in the IE "UE security information" in the variable
"INTER RAT HANDOVER INFO TRANSFERRED"
           cipheringKey = value generated in authentication procedure in GRAN
           cn_DomainIdentity = CS or PS
   CRLC_Ciphering_Activate_REQ (CN domain concerned)
           cipheringModeCommand = Start/Restart (algorithm in HANDOVER TO UTRAN COMMAND)
           rb DL CiphActivationTimeInfo = now (RB1, RB2, RB3, RB4)
           incHFN = NotInc
   CRLC Ciphering Activate REQ (CN domain concerned)
           rb_UL_CipheringActivationTimeInfo = now (RB1, RB2, RB3, RB4)
           incHFN = NotInc
   CMAC SecurityMode Config REQ
           startValue = "START" value included in the IE "UE security information" in the variable
"INTER RAT HANDOVER INFO TRANSFERRED"
           cipheringKey = value generated in authentication procedure in GRAN
           cn DomainIdentity = CS or PS
   CMAC_Ciphering_Activate_REQ (CN domain concerned)
           incHFN = NotInc
           cipheringModeCommand = Start/Restart (algorithm in HANDOVER TO UTRAN COMMAND)
           activationTimeForDPCH = now
```

2. Sending HANDOVER TO UTRAN COMMAND in a RAT different from UTRAN

3. After receiving HANDOVER TO UTRAN COMPLETE message

```
CMAC SecurityMode Config REQ
        startValue = value received in the response message
        cipheringKey = value maintained by TTCN
        cn DomainIdentity = CS or PS
CMAC Ciphering Activate REQ (CN domain concerned)
        cipheringModeCommand = Start/Restart (algorithm) in HANDOVER TO UTRAN COMMAND)
        activationTimeForDPCH = value in "COUNT-C activation time"
        incHFN = IncByOne IncPerCFN Cycle
CRLC SecurityMode Config REQ
        startValue = value received in HANDOVER TO UTRAN COMPLETE
        cipheringKey = value generated in authentication procedure in GRAN
        cn_DomainIdentity = CS or PS
CRLC Ciphering Activate REQ (CN domain concerned)
       cipheringModeCommand = Start/Restart (algorithm in HANDOVER TO UTRAN COMMAND)
        rb DL CiphActivationTimeInfo = now (RB1, RB2, RB3, RB4)
        incHFN = Inc
CRLC_Ciphering_Activate_REQ (CN domain concerned)
        rb UL CipheringActivationTimeInfo = now (RB1, RB2, RB3, RB4)
        incHFN = Inc
```

8.5.4.8 Hard handover

```
Ciphering is activated for any TM radio bearer; "Downlink DPCH info for all RL" in a message performing timing re-initialized hard handover or; "Downlink DPCH info for all RL" in a message other than RADIO BEARER SETUP transferring UE to Cell DCH from non-Cell DCH state.
```

1. Before sending the message

```
CMAC_SecurityMode_Config_REQ
    startValue = value most recently received
    cipheringKey = value maintained by TTCN
    cn_DomainIdentity = CS or PS
CMAC_Ciphering_Activate_REQ (CN domain concerned)
    incHFN = NotInc
    cipheringModeCommand = Start/Restart (existing algorithm)
    activationTimeForDPCH = now
```

2. Send the message for hard HO

3. After receiving the response message

8.5.5 Test USIM configurations

The default test USIM is defined in 3GPP TS 34.108 [3]. This clause specifies a number of specific test USIM configurations which are used for the concerned test cases.

8.5.5.1 Test USIM for Idle mode tests

The PLMN 1-12 identities used below have been defined in 3GPP TS 34.123-1 [1], table 6.2. Clause numbers refer to 3GPP TS 34.123-1 [1].

Test USIM is configured as bellow for PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN in TC_6_1_1_1 and TC_6_1_1_4.

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{PLMNwAcT}	1 st	PLMN 3	UTRAN
	2 nd	PLMN 4	UTRAN
EFOPLMNWACT	1 st	PLMN 5	UTRAN
	2 nd	PLMN 6	UTRAN
EF _{FPLMN}		PLMN 3	

Table 142

Test USIM is configured as bellow for PLMN selection of other PLMN with access technology combinations in $TC_6_1_1_2$.

Table 143

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 6	
EF _{FPLMN}		PLMN 10	

Test USIM is configured as below for automatic PLMN selection of other PLMN with access technology combinations in TC_6_1_1_5.

Table 113a

USIM field	Priority	PLMN	Access Technology Identifier
EFLOCI		PLMN 6	

Test USIM is configured as bellow for manual PLMN selection independent of RF level and preferred PLMN in $TC_6_1_1_3$.

Table 144

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}			
EF _{PLMNwAcT}	1 st	PLMN 3	UTRAN

Test USIM is configured as below for emergency calls in TC_6_1_2_6.

Table 114a

USIM field	Priority	PLMN
EF _{LOCI}		PLMN1
EF _{FPLMN}	PLM	٧3

Test USIMs are configured as bellow for Selection of the correct PLMN and associated RAT in TC_6_2_1_1. Two test USIMs are needed for the test.

Table 145: USIM A

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}			
EF _{HPLMNwAcT}	1 st		GSM
EF _{HPLMNwAcT}	2 nd		UTRAN

Table 146: USIM B

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}			
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM

Test USIMs are configured as bellow for Selection of RAT for HPLMN in TC_6_2_1_2. Two test USIMs are needed for the test.

Table 147: USIM A

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM

Table 148: USIM B

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		

Test USIMs are configured as bellow for Selection of RAT for HPLMN in TC_6_2_1_6. Two test USIMs are needed for the test.

Table 147a: USIM A

USIM field	Priority	PLMN	Access Technology Identifier
EFLOCI		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM
EF _{PLMNwAcT}	1 st	PLMN3	UTRAN

Table 148a: USIM B

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		
EF _{PLMNwAcT}	1 st	PLMN3	UTRAN

Test USIM for Selection of RAT for UPLMN or OPLMN in TC_6_2_1_3, TC_6_2_1_4, TC_6_2_1_7, TC_6_2_1_8 and for Selection of Other PLMN with access technology combinations"; Automatic mode in TC_6_2_1_9.

Table 149

USIM field	Priority	PLMN	Access Technology Identifier
EFLOCI		PLMN 1	
EF _{HPLMNwAcT}	1 st		UTRAN
	2 nd		GSM
EF _{PLMNwAcT}	1 st	PLMN 3	UTRAN
	2 nd	PLMN 4	GSM
EF _{OPLMNwAcT}	1 st	PLMN 5	UTRAN
	2 nd	PLMN 6	GSM

Test USIM are configured as bellow for manual selection of other PLMN with access technology combinations in $TC_6_2_1_5$.

Table 150

USIM field	Priority	PLMN	Access Technology Identifier
EF _{LOCI}		PLMN 7	
EF _{FPLMN}		PLMN 8	
		PLMN 9	

Test USIM for cell reselection if cell becomes barred or for cell reselection timings requires that the USIM does not contain any preferred RAT. This specific test USIM applies to $TC_6_2_2_1$, $TC_6_2_2_2$ and $TC_6_2_2_3$.

8.6 Downlink power setting in SS

Refer to 3GPP TS 34.108 [3], clause 6.1.5.

8.7 Test suite operation definitions

8.7.1 Test suite operation definitions in the common modules

Table 151: TSO definitions in the common modules

TSO Name	Description
o_AuthRspChk	Type of the result: BOOLEAN Parameters: p_AuthRsp : AuthRsp p_AuthRspExt : AuthRspExt p_K : BITSTRING p_RAND : BITSTRING p_Ext : BOOLEAN
	Description Checks the input parameter p_AuthRsp and p_AuthRspExt, both received in an Authentication Response, according to the authentication algorithm defined in the following procedure. The extension, p_AuthRspExt, is optional. Its presence is indicated by p_Ext. Returns TRUE if the Authentication Response contained in parameters p_AuthRsp and eventually p_AuthRspExt is correct, FALSE otherwise. The value of tcv_Auth_n indicates whether the AuthRspExt has been provided by the UE or not (n=31, or 31 < n < 128). See 3GPP TS 34.108 [3] clause 8.1.2. If not the parameter p_AuthRspExt is not to be used.
	Algorithm (without the knowledge of tcv_Auth_n):
	if NOT p_Ext EvaluateAuthRsp else EvaluateAuthRspAndAuthRspExt EvaluateAuthRsp:
	resultbitstring = o_BitstringXOR(XRES, AuthRsp) if resultbitstring is all 0s then there is a match. EvaluateAuthRspAndAuthRspExt:
	XREShigh = o_BitstringXtract(XRES, 32, 32, 0) /* XRES divides into 2 parts: the higher part of 32 bits related to AuthRsp and the lower part related to AuthRspExt */ /* SourceLength of 32 is only to ensure usage of the procedure */ resultbitstring = o_BitstringXOR(XREShigh, AuthRsp) if resultbitstring is all 0s then there is a match for the first 32 bits:EvaluateAuthRspExt else Authentication failed. EvaluateAuthRspExt:
	/* As AuthRespExt may not be octet aligned the last octet indicated in AuthRspExt is not used for checking */ if (AuthRspExt.iel = 1) then Authentication passed /* there was only 1 possibly incomplete octet which is not used */ else
	AuthRspExthigh = o_BitstringXtract(AuthRspExt.authRsp, ((AuthRspExt.iel -1)* 8), (AuthRspExt.iel -1)* 8, 0) /* extract (AuthRspExt.iel -1)* 8 bits starting from bit 0 */ XRESlow = o_BitstringXtract(XRES, ((AuthRspExt.iel -1)* 8 + 32), (AuthRspExt.iel -1)* 8, 32) /* extract (AuthRspExt.iel -1)* 8 bits starting from bit 32 */ resultbitstring = o_BitstringXOR(XRESlow, AuthRspExthigh, (AuthRspExt.iel -1)* 8) if resultbitstring is all 0s then there is a match for the bits following the first 32 bits else Authentication failed

TSO Name	Description
o_BitstringChange	Type of the result: BITSTRING
	Parameters:
	P_Str: BITSTRING
	p_Len: INTEGER
	p_Offset: INTEGER
	Description
	Performs the manipulation of a bitstring by toggling the bit identified by p_Offset. The
	length of the string to be manipulated is specified in p_Len. This is only provided to help
	ensure that the p_Offset is less than p_Len.
	Returns a resulting bitstring of length p_Len.
	EXAMPLE 1: o_BitstringChange('010101'B, 6, 5) produces '010100'B.
o_BitstringConcat	EXAMPLE 2: o_BitstringChange('010101'B, 6, 0) produces '110101'B. Type of the result: BITSTRING
0_BitstilligConcat	Parameters:
	P_Str1: BITSTRING
	p_Str2: BITSTRING
	p_Len1: INTEGER
	p_Len2: INTEGER
	Description .
	Description Performs the concatenation of 2 bitstrings of possibly different lengths.
	The bit significance is from left to right, i.e. the MSB is at the left-hand side.
	Returns a resulting bitstring p_Str1 p_Str2 of length p_Len1 + p_Len.
	EXAMPLE: o_BitstringConcat('010101'B,'11'B) produces '01010111'B of
	length 6 + 2 = 8.
o_BitstringXOR	Type of the result: BITSTRING
	Parameters:
	p_Str1: BITSTRING p_Str2: BITSTRING
	p_Len: INTEGER
	P_25/// #11/2-52/1
	Description
	Performs an XOR operation using 2 bitstrings of the same length (p_Len).
	Returns a resulting Bitstring of length p_Len.
	EVAMPLE: a Pitatring VOP (10011 P. 10101 P. 4) produces 10110 P.
o_BitstringXtract	EXAMPLE: o_BitstringXOR('0011'B, '0101'B, 4) produces '0110'B. Type of the result: BITSTRING
o_bisting/tract	Parameters:
	P_Str: BITSTRING
	p_SrcLen: INTEGER
	p_TargetLen: INTEGER
	p_Offset: INTEGER
	Description
	Performs the wrap around extract of a bitstring. The length of the string from which
	extraction is to be made is specified in p_SrcLen. The length of the bitstring to be
	extracted is indicated as p_TargetLen, the offset in the original string is indicated in
	p_Offset.
	The bit position 0 is at the left side.
	Returns a resulting bitstring of length p_TargetLen.
	EYAMPLE 1: 0. RitetringYtract/(101010/P. 6. 2. 1) produces (01/P.
	EXAMPLE 1: o_BitstringXtract('101010'B, 6, 2, 1) produces '01'B. EXAMPLE 2: o_BitstringXtract('101010'B, 6, 4, 3) produces '0101'B, wrapping around.
	EXAMPLE 3: o_BitstringXtract('111000'B, 6, 4, 3) produces '0111'B, wrapping around.
o_BoolToBit	Type of the result: B1
_	Parameters:
	p_Boolean : BOOLEAN
	Description (in particular)
	Description This TSO is used to convert the given BOOLEAN into a single bit. A hoolean value of
	This TSO is used to convert the given BOOLEAN into a single bit. A boolean value of TRUE will give a result '1' and a boolean value of FALSE will give a result '0'.
	TITOL WIII give a result i and a boolean value of I ALSE WIII give a result o.

TSO Name	Description
o_BMC_DrxScheduling	Type of the result: BMC_ResultOfSchedulingLevel2
	Parameters:
	p_BMC_CBS_Message1 : BMCCBSMESSAGE
	p_BMC_CBS_Message2 : BMCCBSMESSAGE
	p_BMC_CB_RepPeriod : INTEGER p_BMC_NoOfBroadcast_Req : INTEGER
	p_Offset: BMC_DRX_Offset
	p_onset.bivio_btxx_onset
	Description
	This TSO shall calculate all BMC CBS schedule Messages for the CBS messages as
	described in 3GPP TS 34.123-1, clause 7.4.3.1.
	The TSO has to precalculate the CTCH Block SETs needed, i.e. it shall have all necessary knowledge (RLC segmentation, MAC handling, if needed) to predict the CTCH with BMC contents for the given input to be sent.
	The TOO shall associate the DMO ODO Cabadulium Lavado as described in
	The TSO shall consider the BMC CBS Scheduling Level2 as described in 3GPP TS 25.324 [20], 3GPP TR 25.925 [44] and the description of BMC test architecture and test method in the present document, clause 6.8.
	The TSO calculates the BMC CBS Schedule messages to predict its next BlockSet to be sent. In addition, a DRX scheduling Bitmap is created for each CTCH allocated TTI aligned to the pre-calculated offset in between 2 CTCH Block Sets.
	The principle of DRX shall be followed by this TSO. I.e. BMC Messages shall be sent blockwise (CTCH Block Set) with predicted offset in between 2 Block Sets.
	The TSO shall consider the following aspects to calculate the DRX Selection Bitmap and to create the BMC CBS Schedule messages:
	 The first CTCH Block Set consists of the first BMC CBS Schedule message predicting the offset, length and content of the following Block Set where the BMC CBS Message1 shall be send as new message. The BMC CBS Message1 shall be repeated for p_BMC_CB_RepPeriod multiplied by p_BMC_NoOfBroadcast_Req times before the BMC CBS Message2 is
	broadcasted. 3. The BMC CBS Schedule Messages shall be the last message of a CTCH Block
	Set, i.e. on the end of a Block Set.
	 If no further repetition of BMC CBS Messages is needed, no further BMC CBS Schedule message shall be created.
	output parameter: DrxSelectionBitmap: The TSO creates a Bitmap as Octetstring for scheduled CTCH allocated TTI as described in 3GPP TS 34.123-3: clause 6.8.2 BMC test method and architecture.
	CBS_Schedule_Message01, CBS_Schedule_Message02, CBS_Schedule_Message03:Considering the given BMC PDUs BMC_DRX_Offset and BMCCBSMESSAGE to be sent, the BMC Schedule messages have to be created according the given parameter.
o_CheckStringStartWith	Type of the result: BOOLEAN
_ 3	Parameters:
	p_SourceString: IA5String p_StartString : IA5String
	Description o_CheckStringStartWith returns TRUE if the p_sourceString start with the p_StartString. Otherwise it returns FALSE.
	EXAMPLE: o_CheckStringStartWith ("+CLCC:1,0,0,2,0;", "+CLCC:1,0,0")=TRUE */.

TSO Name	Description
o_ComputeSM_ContentsSp	Type of the result: OCTETSTRING
ec	Parameters:
	p_NumOfChars: INTEGER
	p_Text: IA5String
	Description
	This operation provides a short message's contents with a specified number of characters
	'p_NumOfChars', each represented by 7 bits. 'p_Text' is used as contents of the short
	message. If 'p_Text' contains less than 'p_NumOfChars' characters, 'p_Text' is repeated
	until the short message reaches the 'p_NumOfChars' characters long. The bits are arranged acc. to 3GPP TS 23.038 [34], clause 6.1.2.1.1.
	arranged acc. to 3GFT TO 23.030 [34], clause 0.1.2.1.1.
	max. 160 characters, i.e. 140 octets.
o_ConcatStrg	Type of the result: IA5String
	Parameters:
	P_String1: IA5String
	p_String2: IA5String
	Description
	o_ConcatString concatenates 'p_String1' and 'p_String2' and returns the resulting string.
a. CaravardIMCI	EXAMPLE: o_ConcatString ("AT+CBST=0", ",0") = "AT+CBST=0,0"
o_ConvertIMSI	Type of the result: IMSI_GSM_MAP Parameters:
	P_Imsi : HEXSTRING
	The input parameter `p_Imsi` is a BCD string (subset of HEXSTRING), the result is of
	type IMSI_GSM_MAP.
o_ConvertTMSI	Type of the result: TMSI_GSM_MAP
	Parameters: p_Tmsi : OCTETSTRING
	P_THIST. GOTETOTKING
	Description
	The input parameter 'p_Tmsi' is an OCTETSTRING; the result is of type
o_ConvertPTMSI	TMSI_GSM_MAP. Type of the result: P_TMSI_GSM_MAP
0_Converte rivisi	Parameters:
	p_PTMSI : OCTETSTRING
	Description COTETOTRING (In the Content of the Cont
	The input parameter `PTMSI` is a OCTETSTRING, the result is of type P_TMSI_GSM_MAP.
o_ConvtPLMN	Type of the result: TMSI_GSM_MAP
	Parameters: OCTETSTRING
	p_MCC, p_MNC : HEXSTRING
	Description
	Description the functions of o_ConvtPLMN are as following:
	and remember of o_outral Emit and as following.
	The least significant HEX of p_MNC is removed from p_MNC and inserted into
	p_MCC in the position left to the third HEX to form a new p_MCC of 4 HEXs, then
	swap the first HEX (left most, most significant Hex) with the second HEX of the new p MCC.
	2. Swap the first Hex with the second HEX of the remaining part of p_MNC and
	append it to the new p_MCC formed in Step1 above.
	EXAMPLE 1: o_ConvtPLMN('123'H, '456'H) = '216354'O.
	EXAMPLE 2: o_ConvtPLMN ('234'H, '01F'H) = '32F410'O.

TSO Name	Description
o_FirstDigit	Type of the result: B4
	Parameters:
	p_BCDdigits : HEXSTRING
	Description
	The input parameter p_BCDdigits shall be a BCD string (subset of HEXSTRING), the
	result is a BITSTRING[4] of a binary representation of one BCD digit.
	The function of the o_FirstDigit is to return the first (most significant) digit of the input
	parameter 'p_BCDdigits'.
	EXAMPLE 1: o_FirstDigit('12345') = '0001'B.
	EXAMPLE 2: o_FirstDigit('012345678') = '0000'B.
o_GetBit	Type of the result: BITSTRING
	Parameters:
	p_Source: BITSTRING
	p_DataLength: INTEGER
	Description
	o_GetBit returns the BITSTRING of length p_DataLength extracted from p_Source.
	The extraction shall start in the bit position 0 (at the left).
o_GetLeastSignificantBits	Type of the result: BITSTRING Parameters:
	bstring : BITSTRING
	lg : INTEGER
	Description Cott postSignificantPite operation returns the `la` locat significant bits of the original
	o_GetLeastSignificantBits operation returns the `lg` least significant bits of the original `bstring`.
	boung.
	for example:
	Cost cost Cimition + Dita //44 0044 0004 04 04 0/D 2) 104 0/D
	o_GetLeastSignificantBits('110011000101010'B, 3) = '010'B, o_GetLeastSignificantBits('110011000101010'B, 6) = '101010'B.
o_GetMostSignificantBits	Type of the result: BITSTRING
	Parameters:
	bstring: BITSTRING
	lg :INTEGER
	Description
	o_GetMostSignificantBits operation returns the `lg` most significant bits of the original
	`bstring`.
	for example:
	ioi example.
	o_GetMostSignificantBits('110011000101010'B, 3) = '110'B,
2	o_GetMostSignificantBits('110011000101010'B, 6) = '110011'B.
o_GetMostSignificantBits_W	Type of the result: BITSTRING Parameters:
rapAround	bstring : BITSTRING
	lg :INTEGER
	Description
	o_GetMostSignificantBits operation returns the `lg` most significant bits of the original `bstring`.
	County .
	for example:
	CotMostSignificontPite/(11001100010101010 2) (1100P
	o_GetMostSignificantBits('110011000101010'B, 3) = '110'B, o_GetMostSignificantBits('110011000101010'B, 6) = '110011'B.
	If Ig is greater than the length of bstring, then a bitsring of size greater than Ig is created
	by concatinating bstring to itself (any number of times till it is size is greater than lg), and
	then 'lg' most significant bits of concatenated bstring are returned.
	example o_GetMostSignificantBits('1100'B, 9) = '110011001'B.
o_GetN_OctetsFromPRBS	Type of the result: OCTETSTRING
	Parameters:
	p_Start, p_N: INTEGER

TSO Name	Description		
	Description This operation returns N octets from a repeated pseudo random bit sequence, starting with octet position p_Start. The PRBS is the 2047 bit pseudo random test pattern defined in ITU-T Recommendation O.153 [45] for measurements at 64 kbit/s and N x 64 kbit/s o_GetN_OctetsFromPRBS(p_Start, p_N) generates an OCTETSTRING containing p_N octets starting from octet number p_Start in the PRBS. Requirements p_Start ≥ 0 p_N ≥ 1 Definition Define the 2 047 bit PRBS sequence b(i) as an m-sequence produced by using the following primitive (over GF(2)) generator polynomial of degree 11: $X^1 + X^2 + 1$ This sequence is defined recursively as: $b(i) = 1$, $i = 0,1,,10$ $b(i) = b(i - 2) + b(i - 11)$ modulo 2 , $i = 11,16,,2046$ The OCTETSTRING, o(j) generated by the present TSO is produced by extracting p_N octets from the repeated sequence b(i) as follows: o(j,k) = b(((n_Start + j) * 8 + k) modulo 2047) where: $j = 0,1,,p_N - 1$ $k = 0,1,7$ o(j,k) is the kth bit of the jth octet in o(j), o(j,0) is the MSB of the jth octet in o(j), o(j,0) is the MSB of the jth octet in o(j), example results: o_GetN_OctetsFromPRBS(0, 25) and o_GetN_OctetsFromPRBS(2047, 25) both return: 'FFE665A5C5CA3452085408ABEECE4B0B813FD337873F2CD1E2'O o_GetN_OctetsFromPRBS(255, 25) and o_GetN_OctetsFromPRBS(255 + 2047, 25) both return '01FFCCCB4B8B9468A410A81157DD9C9617027FA66F0E7E59A3'O		
o_GetPI	Type of the result: BITSTRING Parameters: p_Imsi : HEXSTRING p_Np: INTEGER Description PI = drx_index mod np The drx_index is calculated as described hereafter: drx_index = (p_Imsi / 8192)) This calculation is defined in TS 25.304 clause 8.3.		
o_GetSC_TimeStamp	NOTE: the IMSI is passed as HEXSTRING, the relevant conversion shall be done. Type of the result: TP_ServCentreTimeSt Parameters: p_timezone: TZONES This operation provides the hexstring containing the Service Centre Time Stamp (SCTS) according to 3GPP TS 23.040 [35], clauses 9.2.2.1 and 9.2.3.11. The TSO reads the current time of the test systems clock and transforms the time in combination with the input parameter 'timezone' into a service centre time stamp. Example: 2002 April 18, 15:32:46, timezone=4 o_GetSC_TimeStamp returns 20408151236440 TPSCTS is HEXSTRING[14]		
o_HexToDigitsMCC	Type of the result: MCC Parameters: p_BCDdigits: HEXSTRING Description The input parameter p_BCDdigits shall be a BCD string (subset of HEXSTRING), the result is a SEQUENCE (SIZE(3)) OF digit (MCC).		

TSO Name	Description
	NOTE: The length of p_BCDdigits shall be 3. User shall take the responsibility of fulfilling this requirement.
	EXAMPLE 1: o_HexToDigitsMCC('111'H) = {1, 1, 1}. EXAMPLE 2: o_HexToDigitsMCC('123'H) = {1, 2, 3}.
o_HexToDigitsMNC	Type of the result: MNC Parameters: p_BCDdigits: HEXSTRING
	Description The function of this operation is: 1. The least significant HEX is removed if it is 'F' and the operation returns SEQUENCE (SIZE(2)) OF Digit. 2. The operation returns SEQUENCE (SIZE(3)) OF Digit if all 3 HEX digits in p_BCDdigits are BCD Digit.
	EXAMPLE 1: o_HexToDigitsMNC('123'H) = {1, 2, 3}. EXAMPLE 2: o_HexToDigitsMNC('13F'H) = {1, 3}.
o_HexToIA5	Type of the result: IA5String Parameters: p_String: HEXSTRING
	Description o_HEX_TO_IA5 converts hexadecimal string 'p_String' to an IA5 String
	EXAMPLE: o_HEX_TO_IA5 ('15A'H) = "15A".
o_IA5_ToOct	Type of the result: OCTETSTRING Parameters: p_String: IA5String
	Description o_IA5_ToOct converts the string p_String from IA5String type to OCTETSTRING. Each character is mapped onto an octet, and bit 8 is set to 0. This TSO shall be used to convert Access Point Numbers for example. See 3GPP TS 24008, clause 10.5.6.1
LAS DAG T O :	EXAMPLE: o_IA5_ToOct ("15A") = '313541'O.
o_IA5_BMC_ToOct	Type of the result: OCTETSTRING Parameters: p_String :IA5String_BMC p_DCS: TP_DataCodingScheme
	Description o_IA5_BMC_ToOct converts the string p_String from IA5String_BMC type to OCTETSTRING. p_DCS determines how this is done (refer to 3GPP TS 23.038 [34] clause 5). If a 7 bit packing is to be applied then proceed as described in 3GPP TS 23.038 [34] clause 6.1.2.2.1 and clause 6.2.1. This is the default case.
	If 8bit data is to be used then proceed as described in 3GPP TS 23.038 [34] clause 6.2.2. If UCS2is to be used then proceed as described in 3GPP TS 23.038 [34] clause 6.2.3.
	The type IA5_BMC implies that the length of p_String is restricted to 11395 octets. (Refer to 3GPP TS 23.041 [36], 3GPP TS 23.038 [34], 3GPP TS 25.324 [20])
	This TSO will always generate a BMC encoded message of 15 page of information. If the input message stream (p_String) is less than the size of required octet, then the input message will be concatenated to generate a string of required length based on p_DCS.

TSO Name	Description
o_IA5_IP_ToOct	Type of the result: OCTETSTRING
	Parameters:
	p_String: IA5String
	p_IP_V4: BOOLEAN
	Description
	o_IA5_IP_ToOct converts the string p_String from IA5String type to OCTETSTRING.
	In case of IPv4, p_String represents an IP address consisting of a number of fields of
	digits, separated by dots. Each one of the numbers of which the IP address consists is
	converted into one octet. The dots separating the numbers are ignored.
	EXAMPLE 1: o_IA5_IP_ToOct ("200.1.1.80", TRUE) = 'C8010150'O.
	EXAMPLE 2: o_IA5_IP_ToOct ("200.1.1.80.100", TRUE) should result in an appropriate
	error message.
	EXAMPLE 3: o_IA5_IP_ToOct ("300.1.1.80", TRUE) should result in an appropriate error message.
	enoi message.
	In case of IPv6, p_String represents an IP address consisting of a number of fields of
	hexadecimal digits, separated by ":".
	a) In case of uncompressed IPv6 format each value separated by ";" is converted to 2
	octets. The ":" separating the numbers are ignored.
	EXAMPLE 1: o_IA5_IP_ToOct(FEDC:BA98:7654:3210:FEDC:BA98:7654:3210, FALSE) = 'FEDCBA9876543210FEDCBA9876543210'O
	EXAMPLE 2: o_IA5_IP_ToOct(FEDC:BA98:7654:3210:FEDC:BA98:7654, FALSE)
	should result in an appropriate error message.
	EXAMPLE 3: o_IA5_IP_ToOct(1080:0:0:0:8:800:200C:417A,FALSE) =
	'108000000000000000080800200C417A'O
	EXAMPLE 4: o_IA5_IP_ToOct(1080:0:0:0:8:800:20H:417A,FALSE) should result in an
	appropriate error message.
	b) In case of compressed IPv6 format the use of "::" indicates multiple groups of 16-bits of zeros. The "::" can only appear once in an address.
	EXAMPLE 1: o_IA5_IP_ToOct(FF01::101,FALSE) =
	'FF01000000000000000000000000101'O
	EXAMPLE 2: o_IA5_IP_ToOct(FEDC::7654:3210:FEDC::BA98:7654:3210, FALSE)
	should result in an appropriate error message.
	ID V/4 is a ROOL FANL When TRUE on ID Version 4 address is to be converted the
	p_IP_V4 is a BOOLEAN. When TRUE, an IP Version 4 address is to be converted, the maximum length of which is 4 octets, otherwise an IP Version 6 address is to be
	converted, the maximum length of which is 16 octets. See 3GPP TS 24.008 [9],
	clause 10.5.6.4.
o_IA5_DigitsToOct	Type of the result: OCTETSTRING
	Parameters:
	p_String: IA5String
	Description
	o_IA5_DigitsToOct converts the string p_String from IA5String type to OCTETSTRING.
	Each pair of characters is considered a pair of numbers to be mapped onto 1 octet.
	Each character of p_String shall represent a digit (09).
	In case the number of characters is odd, then a filler '1111'B is used to fill the last octet
	required to represent the digits. See 3GPP TS 24.008 [9], clause 10.5.4.7.
	EXAMPLE 1: o_IA5_DigitsToOct ("0613454120") = '6031541402'O.
	EXAMPLE 2: o_IA5_DigitsToOct ("06134541209") = '6031541402F9'O.
	EXAMPLE 3: o_IA5_DigitsToOct ("A6134541209") should result in an appropriate error
	message.
o_IntToOct	Type of the result: OCTETSTRING
	Parameters: p_N:INTEGER
	p_L: INTEGER
	···
	Description
	o_IntToOct converts the INTEGER `p_N` into OCTETSTRING with length = 'p_L'.
	EVANDLE 4 a lette Oct/44.4) 10F10
	EXAMPLE 1: o_IntToOct(14,1) = '0E'O. EXAMPLE 2: o_IntToOct(18,1) = '12'O.
	EXAMPLE 3: o_IntToOct(18,1) = 12 O. EXAMPLE 3: o_IntToOct(18,2) = '0012'O.
L	

TSO Name	Description
o_IntToIA5	Type of the result:IA5String
	Parameters:
	p_N : INTEGER; p_L: INTEGER
	December
	Description o_IntToIA5 converts the INTEGER `p_N` into IA5 String with length = 'p_L'.
	O_INITIONAS CONVERS THE INTEGER P_N INTO NAS String with length = P_L.
	EXAMPLE 1: o_IntToIA5(160,3) = "160";
	EXAMPLE 2: o_IntToIA5(160,4) = " 160";
	EXAMPLE 3: o_IntToIA5(160,2) = "60".
o_OctetstringConcat	Type of the result: OCTETSTRING
	Parameters:
	p_Str1, p_Str2: OCTETSTRING
	Description
	o_OctetstringConcat Performs the concatenation of 2 octetstrings of possibly different
	lengths.
	The octet significance is from left to right, i.e. the MSB is at the lefthand side.
	Returns a resulting octetstring p_Str1 p_Str2.
	EXAMPLE: o_OctetstringConcat('135'O, '9A38'O) = '1359A38'O.
o_OctToBit	Type of the result: BITSTRING
	Parameters:
	p_OctetStr: OCTETSTRING
	Description
	Description Converts an OCTETSTRING into a BITSTRING.
	The size of the resulting BITSTRING is 8 times the size of the input OCTETSTRING.
o_OctToIA5	Type of the result: IA5String
	Parameters:
	p_String : OCTETSTRING
	Description
	Description o_Oct_ToIA5 converts the string p_String from OCTETSTRING type to IA5String.
	Each octet is mapped onto a pair of characters. Nibbles 0 - F are translated into "0" - "F".
	For example:
O IT I	o_Oct_ToIA5 ('3BF541'O) = "3BF541'
o_OctToInt	Type of the result: INTEGER Parameters:
	p_oct : OCTETSTRING
	P_sort of t_rent in the second of the second
	Description
	Transform an OCTETSTRING of length 1 to 4 into an unsigned 32 bits IINTEGER value.
o CoDit	If the input octet string is larger than 4, then only the first 4 octets shall be considered. Type of the result: BITSTRING
o_OeBit	Parameters:
	p_BCDdigits: HEXSTRING
	P_555 signor (External to
	Description
	The input parameter 'p_BCDdigits' is a BCD string (subset of HEXSTRING), the result is
	BITSTRING[1]. The function of the c. OoBit is so the follows:
	The function of the o_OeBit is as the follows:
	1. It returns '1'B, if the length of the 'p_BCDdigits' is odd.
	2. It returns '0'B, if the length of the 'p_BCDdigits' is even.
	EXAMPLE 1: o_OeBit('12583') = '1'B.
	EXAMPLE 2: o_OeBit('87259957') ='0'B.

TSO Name	Description
o_OtherDigits	Type of the result: OCTETSTRING Parameters: p_BCDdigits: HEXSTRING
	Description The input parameter `p_BCDdigits ` is a BCD string (subset of HEXSTRING), the result is an even string of BCD digits, with eventually a filler 'F'H used. */
	The function of the o_OtherDigits is as the follows:
	 If the number of the 'p_BCDdigits' is odd, the operation removes the most significant digit, and then reverses the order of each pair of digits. If the number of the 'p_BCDdigits' is even, first the operation suffixes the `bcddigits` with 'F'H, then removes the most significant digit, and then reverses the order of each pair of digits.
	EXAMPLE 1: o_OtherDigi('12345') = '3254', EXAMPLE 2: o_OtherDigi('12345678') = '325476F8'. See o_FirstDigit for the handling of the first digit.
o_RoutingParameterIMSIRe sponsePaging	Type of the result: RoutingParameter Parameters: p_IMSI : HEXSTRING
	Description The input parameter p_Imsi is a BCD string (subset of HEXSTRING), the result is of type RoutingParameter.
	The tso returns the RoutingParameter, which consists of DecimalToBinary [(IMSI div 10) mod 1000]. The bits of the result are numbered from b0 to b9, with bit b0 being the least significant.

TSO Name	Description
o_SIB_PER_Encoding	Type of the result: BITSTRING
	Parameters: p_SIB : SIB
	ρ_Sib . Sib
	Description
	It returns the unaligned PER encoding (BIT STRING) of the input system information
	block p_SIB (without "Encoder added (1-7) bits padding"). The bits corresponding to the
	encoding of the CHOICE of the SIB type shall be removed. Example:
	for the following SIBType1 value:
	SysInfoType1 ::=
	{ cn-CommonGSM-MAP-NAS-SysInfo '32F4100001'H, cn-DomainSysInfoList
	{ cn-DomainIdentity ps-domain,
	<pre>cn-Type gsm-MAP : '0000'H, cn-DRX-CycleLengthCoeff 7},</pre>
	{cn-DomainIdentity cs-domain,
	cn-Type gsm-MAP : '0001'H,
	<pre>cn-DRX-CycleLengthCoeff 7}},</pre>
	ue-ConnTimersAndConstants
	{ t-304 ms100, n-304 7,
	t-308 ms40,
	t-309 8,
	t-313 15, n-313 s200,
	t-314 s20,
	t-315 s1800, n-315 s1000},
	ue-IdleTimersAndConstants
	{ t-300 ms400, n-300 7,
	t-312 10,
	n-312 s200}, nonCriticalExtensions { }
	The operation returns BITSTRING:
	"1000011001011110100000100000000000000
	0010000000000000010100001100110000011111
o_SIB_Segmentation	Type of the result: SegmentsOfSysInfoBlock
0	Parameters:
	p_SIBBitString : BITSTRING
	Description
	The function of the o_SIB_Segmentation is as following:
	1. If the p. CIPDitCtring is less than or equal to 200 hits, the hit string is fit into a
	 If the p_SIBBitString is less than or equal to 226 bits, the bit string is fit into a complete segment. If the segment is less than 226 bits but more than 214 bits, the
	segment shall be padded to 226 bits long with padding bits set to '0'B.
	2. If the input operand p_SIBBitString is longer than 226 bits it is segmented from left
	to right into segments, each segment except the last one is 222 bits. The last
	segment may be 222 bits or shorter. If the length of last segment is greater than 214 bits pad it to 222 bits with padding bits set to '0'B.
	The number of segments is assigned to recount field of the result.
	4. The first segment is assigned to seg1 field of the result, the second segment is
	assigned to the seg2 field of the result, the third segment is assigned to the seg3 field of the result, and so on till the last segment.

TSO Name	Description			
o_SIB_SegmentationFirstSp	Type of the result: SegmentsOfSysInfoBlock			
ecial	Parameters: p_SIB_BitString : BITSTRING			
	p_FirstSegLength: INTEGER			
	Description The function of the o_SIB_Segmentation_FirstShort is as following:			
	The function of the o_olb_oegmentation_f instance is as following.			
	If the p_SIB_BitString is less than or equal to p_FirstSegLength bits, the bit string is fit into one segment.			
	2. If the input operand p_SIB_BitString is longer than p_FirstSegLength bits it is segmented from left to right into segments, each segment except the first one and the last one is 222 bits. The first one is p_FirstSegLength long. The last segment may be 222 bits or shorter. If the length of last segment is greater than 214 bits pad it to 222 bits with padding bits set to '0'B.			
	The number of segments is assigned to segCount field of the result.			
	4. The first segment is assigned to seg1 field of the result, the second segment is assigned to the seg2 field of the result, the third segment is assigned to the seg3 field of the result, and so on till the last segment.			
a. Chaali DDI la Aalina uula daa	The value of parameter p_FirstSegLength shall be less than 197. Type of the result: BOOLEAN			
o_CheckPDUsAcknowledge d	Parameters:			
	p_NackList: NackList Contains a list of integers (possibly empty), each of which corresponds to a PDU SN. Negative acknowledgement is expected for each of these PDUs.			
	p_FSN: INTEGER Contains an integer representing the first SN expected to be acknowledged.			
	p_LSN: INTEGER Contains an integer representing the last SN expected to be acknowledged.			
	p_SUFI_List: SuperFields This parameter contains the received SUFI list to be checked.			
	Description: This TSO is used to check that the given SUFI list contains any combination of SUFIs that fulfils the following requirements:			
	Negatively acknowledges all PDUs whose sequence numbers are in p_NackList. Note that the list may be empty.			
	Positively acknowledges all other PDUs with sequence numbers greater than or equal to p_FSN, and less than or equal to p_LSN.			
	Output: This TSO returns a BOOLEAN value of TRUE if the SUFI list meets all of the requirements based on the given parameters. Otherwise the TSO returns FALSE.			

8.7.1.1 Specific test suite operation for RLC defined in BasicM

This TSO is defined in BasicM, it is used by RLC and MAC ATSs.

Table 152: TSO definitions for RLC SUFI handling

TSO Name	Description
o_SUFI_Handler	Type of the result: ResAndSUFIs
	Parameters:
	p_SUFI_Params: SUFI_Params
	p_SUFI_String: HEXSTRING
	Conditions:
	Inputs:
	p_SUFI_Params: the list of checking criteria to be applied by the TSO
	p_SUFI_String: the HEXSTRING received containing the SUFIs
	Outputs:
	the BOOLEAN result of the TSO:
	TRUE if all checking and the filling of the SuperFields structure were successful;
	FALSE otherwise; in this case the TSO shall produce sufficient output to allow problem analysis

Table 153: ResAndSUFIs type and Processing of the SUFI parameters input to the TSO

Parameter	Туре	Setting	Meaning	Comment
Lower Bound	BITSTRING	OMIT	Do not use!	
(LB)	[12]	AnyOrOmit	Do not use!	
Upper Bound		Any	Do not use!	
(UB)		Value	Use!	
NackList	BITSTRING	OMIT	Do not use!	
Element i	[12]	AnyOrOmit	Do not use!	
(Nacki)		Any	Do not use!	
		Value	Use!	Check negative ack
Window Size	BOOLEAN	OMIT	Use!	Check absence
SUFI presence		AnyOrOmit	Do not use!	
(WSN_		Any	Use!	Check presence
presence)		Value	Use!	Check presence
MRW SUFI	BOOLEAN	OMIT	Use!	Check absence
presence		AnyOrOmit	Do not use!	
(MRW_		Any	Use!	Check presence
presence)		Value	Use!	Check presence

8.7.1.1.1 Pseudocode in a C like notation

The pseudocode defined below can be written in a more compact fashion. The code hereafter is to allow easy identification of the TSO's tasks. All situations leading to a FALSE result must produce a log. This is not shown in the code hereafter. Possible wrap arounds are not shown in this section. These have to be accounted for at the appropriate places.

```
Set_SUFI_ListRec(SUFI);
                                              /* Put the SUFI at the correct place in the
resulting */
/* SUFI structure; overwrite if the SUFI type has */
/* already been extracted except LIST SUFIs which all are to be collected */
                                                /* Get next SUFI */
    SUFI := Extract SUFI(i);
}
/* FOR ALL SUFI TYPES: IF EXISTING, PERFORM CONSISTENCY CHECK */
if Exists_SUFI (ACK) AND NOT CheckConsistency (ACK)
RESULT := FALSE;
                                               /* ACK SUFI inconsistent -> Result is FALSE */
if Exists SUFI (WINDOW) AND NOT CheckConsistency (WINDOW)
RESULT := FALSE;
                                                /* WINDOW SUFI inconsistent -> Result is FALSE */
/* TAKE THE INDIVIDUAL CHECKING PARAMETERS & PERFORM THE EXPECTED CHECKING */
/* PART 1: EXISTENCE CHECKS */
if ((WSN presence == Any) OR (WSN presence == TRUE) OR (WSN presence == FALSE)) AND NOT
Exists SUFI(WINDOW)
                                                /* WINDOW not ex. but should -> Result is FALSE */
RESULT := FALSE:
if ((MRW_presence == Any) OR (MRW_presence == TRUE) OR (MRW_presence == FALSE)) AND NOT
Exists SUFI (MRW)
RESULT := FALSE;
                                                /* MRW not ex. but should -> Result is FALSE */
/* PART 2: RANGE AND NACK CHECKS OF SUFI CONTENTS*/
/* ACK: LB <= LSN received <= UB */
if NOT (LB <= Extract SUFI Value(ACK) -1 AND Extract SUFI Value(ACK) -1 <= UB)
RESULT := FALSE;
                                                /* ACK value not in the expected range */
                                                /* LB: first SN acceptable as LSN received */
                                                /* UB: last SN acceptable as LSN received */
                                                /* LSN received acks SNs upto LSN received -1 */
/* Bitmap */
/* for all SNs between LB and UB */
if (ExtractBitmap(FSN extracted, LENGTH extracted, Bitmap extracted, SN) == 1) AND (SN in NackList)
RESULT := FALSE;
                                               /* if the bit in the Bitmap is not 0 */
if (ExtractBitmap(FSN extracted, LENGTH extracted, Bitmap extracted, SN) == 0) AND (SN NOT in
NackList)
RESULT := FALSE;
                                                /* if the bit in the Bitmap is not 0 */
/* LIST */
/* The (SNi,Li) pairs identify AMD PDUs which have not been correctly received. */
/* Therefore the (SNi,Li) pairs have to be consistent with the NackList. */
/* The (SNi,Li) pairs may be contained in multiple LIST SUFIs conveyed in one STATUS PDU */
/* RLTST */
/* The CWs represent the distance between the previous indicated erroneous AMD PDU */
/* up to and including the next erroneous AMD PDU, starting from the FSN contained in the RLIST
SUFI. */
/st Therefore the FSN and the Codewords have to be consistent with the NackList. st/
/* Error burst indicator has to be treated as a separate case. May not have to be implemented
currently. */
/* MRW */
/* LENGTH = 0 */
/* 1 SN MRWi is present and the RLC SDU to be discarded extends above the configured transmission
window in the sender */
/* LENGTH = 1 ... 15 */
/* 1 ...15 SN_MRWi */
/* a) MRW configured → an SN MRWi indicates the end of each discarded RLC SDU */
/* n SN MRWs → n RLC SDUs discarded */
/* b) MRW not configured \Rightarrow an SN_MRWi indicates end of last RLC SDU to be discarded */
/* in the receiver */
/* To be implemented as far as required by the RLC ATS */
/* MRW ACK */
/* The SN ACK must be consistent with the information sent in a previous MRW SUFI upon which the */
/* MRW ACK represents the answer. */
/* NO MORE */
/* no checking required */
/* SUBFUNCTIONS USED*/
Check Consistency (SUFI type)
                                                /* returns TRUE when the type fulfils the */
```

```
/* requirements of the spec. TS 25.322*/
Exists_SUFI (SUFI_type)
                                                  /* returns TRUE when the specified */
/* type has been extracted, therefore exists*/
ExtractBitmap(FSN extracted, LENGTH extracted, Bitmap extracted, Criterion)
                                          /* Extract the value in the Bitmap at position Criterion */
                                          /* Calculation based on information received in the */
                                          /* Bitmap SUFI */
Extract_SUFI (Counter)
                                          /* returns the SUFI extracted at position counter */
/* from the input p_SUFI_String; */
/* n SUFIs from positions 0 to n-1 */
/* returns NULL if there is no further SUFI */
Extract_SUFI_Value (SUFI_type, field_type ) /* extract the value of specific field type */
/\ast contained in a specific SUFI type \ast/ /\ast There will be several flavours depending upon the \ast/
/* result (field) type */
Initialize ResAndSUFIs ()
                                                   /* Initialize RESULT and all SUFI fields */
                                                   /* set return values RESULT and */
Set_SUFI_ListRec(SUFI)
                                                   /* SUFI structure SUFI_ListRec */
```

8.7.2 Specific test suite operation definitions for Multi RAT Handover testing

Table 154: TSO definitions for Multi RAT handover

TSO Name	Description
OC_LeastBits	Type of the result: BITSTRING
	Barrandana
	Parameters: bstring: BITSTRING
	lg : INTEGER
	IS . ITTESEIX
	Description:
	It returns the `lg` least significant bits of the original `bstring`.
	for example: OC_LeastBits('110011000101010'B, 3) = '010'B,
	OC_LeastBits('110011000101010'B, 5) = '101010'B.
OC MostBits	Type of the result: BITSTRING
	Parameters:
	bstring: BITSTRING
	lg : INTEGER
	Description:
	It returns the `lg` most significant bits of the original `bstring`.
	for example:
	OC_MostBits ('110011000101010'B, 3) = '010'B, OC_MostBits ('110011000101010'B, 6) = '101010'B.
o_HO_PER_Encoding	Type of the result: BITSTRING
	Type of the result Bire frame
	Parameters:
	p_Msg : DL_DCCH_Message
	Description:
	It returns the unaligned PER encoding (BIT STRING) of the input downlink DCCH
	message p_Msg (without "Encoder added (1-7) bits padding").
o_PacketPagingGroupCalc	Type of the result: INTEGER
ulate	Barrandana
	Parameters: IMSI : HEXSTRING
	KC Conf : INTEGER
	M : INTEGER
	N: INTEGER
	SplitPGCycle: B8
	Description:
	1====b=

TSO Name	Description
	It returns the calculated Packet Paging Group, according to:
	PAGING_GROUP (0 M-1) = (((IMSI mod 1000) div (KC*N)) * N + (IMSI mod 1000) mod N + Max((m * M) div SPLIT_PG_CYCLE, m)) mod M for m = 0,, Min(M, SPLIT_PG_CYCLE) -1 where KC = number of (P)CCCH in the cell = BS_PCC_CHANS for PCCCH or BS_CC_CHANS
	for CCCH
	M = number of paging blocks "available" on one (P)CCCH = (12 - BS_PAG_BLKS_RES - BS_PBCCH_BLKS) * 64 for PCCCH (9 - BS_AG_BLKS_RES) * 64 for CCCH not combined (9 - BS_AG_BLKS_RES) * 64 for CCCH not combined
	(3 - BS_AG_BLKS_RES) * 64 for CCCH + SDCCH combined
	N=1 for PCCCH (9 - BS_AG_BLKS_RES)*BS_PA_MFRMS for CCCH not combined
	(3 - BS_AG_BLKS_RES)*BS_PA_MFRMS for CCCH/SDCCH combined
	SPLIT_PG_CYCLE is an MS specific parameter negotiated at GPRS attach (see 3GPP TS 04.60)
	IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 03.03.
o_PagingGroupCalculate	Type of the result: INTEGER Parameters:
	p_IMSI : HEXSTRING
	p_CCCH_Conf : B_3
	p_N : INTEGER
	Description Calculate the PAGING_GROUP (0 N?1) = ((IMSI mod 1000) mod (BS_CC_CHANS x N)) mod N
	where:
	N = number of paging blocks "available" on one CCCH = (number of paging blocks "available" in a 51-multiframe on one CCCH) x BS_PA_MFRMS.
	IMSI = International Mobile Subscriber Identity, as defined in 3GPP TS 23.003 [6]. mod = Modulo.
o_TTCN_HO_CommandTo	div = Integer division. Type of the result: BITSTRING
Bitstring	Parameters:
	p_PDU : PDU
	Description
	The function of the o_TTCN_HOCommandToBitstring is as the follows:
o BitToOct	- It returns the bitstring representation of the input HANDOVERCOMMAND p_PDU. Type of the result: OCTETSTRING
0_5110001	Parameters:
	p_Str: BITSTRING
	Description
	This TSO is used to convert the given BITSTRING into an OCTETSTRING. If the bitstring
	length is not a multiple of 8, 1 to 7 padding bits are added at the MSB to fill the final octet.

8.7.3 Specific test suite operation for Multi RAB testing

Table 155: TSO definitions for Multi RAB testing

TSO Name	Description
o_SendContinuousData	Type of the result: BOOLEAN
	Parameters:
	p_RAB_Tx_Info : RAB_Tx_Info
	Conditions:
	Inputs:
	p_RAB_Tx_Info: test data, number of RBs, and RB info of each RB (RB id, SDU size and number of SDUs to be transmitted in consecutive TTIs
	Outputs:
	The BOOLEAN result of the TSO:
	TRUE if system simulator accepts the information sent from TTCN
	FALSE if system simulator rejects the information sent from TTCN.
	Description
	When sending the data through the TSO, after the CMAC_Restriction_REQ, the TFC under test will be one corresponding 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.
	Starting from the beginning of the raw data buffer given in the TSO:
	Data to be sent on a particular RbId is the first (number of SDUs * SDU_Size) bits
	All calls to TSO o_sendContinuosData in a test will always specify the exact same set
	of Rblds.

Table 156: RAB_Tx_Info type

Structure Type Definition			
Type Name: RAB_Tx_Info			
Encoding Variation:			
Comments: To provide the information to SS to send data in every TTI on each RAB. Number of RBs			
depends on specific require	ement. SS shall take care ab	out all kind of discard info in	n all RLC modes and final
aim is DL TFCs under test	shall be selected in downlink	k for each TTI.	
Element name	Type Definition	Field Encoding	Comments
test data	BITSTRING		The raw test data buffer
no_of_rbs	INTEGER		No of Radio Bearers
rb_tx_info1	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info2	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info3	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info4	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info5	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs
rb_tx_info6	RB_Tx_Info		Info about RB id, SDU
			size and number of SDUs

Table 157: RB_Tx_Info type

Structure Type Definition				
Type Name: RB_Tx_	Type Name: RB_Tx_Info			
Encoding Variation:	Encoding Variation:			
Comments:	Comments:			
Element name	Type Definition	Field Encoding	Comments	
rb_id	INTEGER	-		
sdu_size	INTEGER			
no_of_sdus	INTEGER			

8.7.4 Specific test suite operation for InterSystem Handover testing

Table 158: TSO definitions for InterSystem testing

TSO Name	Description
o_LengthofPDU	Type of the result: O1 Parameters: p_Msg: PDU
	Description: The function of the o_LengthofPDU is as the follows: - it returns the no. of octets of the input downlink message p_Msg

8.7.5 Specific test suite operation for RAB_HS testing

Table 159: TSO definitions for RAB_HS testing

TSO Name	Description
o_CalculateTestPoint656	Type of the result: HSDPA_TestPoint
	Parameters:
	p_PhyCat:HSDSCH_physical_layer_category
	p_ModScheme:ModulationScheme
	p_NumOfPDU: INTEGER
	Description:
	TSO implements tables 14.1.3.4.1 for category 1 to 6, 14.1.3.4.2 for category 7 and 8,
	14.1.3.4.3 for category 9, 14.1.3.4.4 for Category 10 and 14.1.3.4.5 for category 11 and 12.
	It accepts UE category(1 to 12), Modulation scheme(qpsk or qam16) and number of MAC-D PDU's(1 to 70) as input.
	If a test point is not defined for this combination of input, then returns flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS_SCCH =0
	If a test point is defined for the combination of inputs, it returns,
	flag = TRUE
	noOfChannelisationCodes =value as per relevant table
	tbSizeIndexOnHS_SCCH =TFRI value as per relevant table
	example:
	if input is physical category =1,modScheme=qpsk,Num Of PDU's =5
	TSO returns
	flag = TRUE
	noOfChannelisationCodes =5
	tbSizeIndexOnHS_SCCH =43
	If input is category =1,modScheme=qpsk,Num Of PDU's =10
	TSO returns
	flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS_SCCH =0

TSO Name	Description
o_CalculateTestPoint336	Type of the result: HSDPA_TestPoint
	Parameters:
	p_PhyCat:HSDSCH_physical_layer_category
	p_FnyCat.nsbscn_pnysical_layer_category p_ModScheme:ModulationScheme
	p_NumOfPDU: INTEGER
	· =
	Description:
	TSO implements tables 14.1.3.3.1 for category 1 to 6, 14.1.3.3.2 for category 7 and 8,
	14.1.3.3.3 for category 9, 14.1.3.3.4 for Category 10 and 14.1.3.3.5 for category 11 and 12.
	It accepts UE category(1 to 12), Modulation scheme(qpsk or qam16) and number of MAC-D PDU's(1 to 70) as input.
	If a test point is not defined for this combination of input, then returns flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS SCCH =0
	If a test point is defined for the combination of inputs, it returns,
	flag = TRUE
	noOfChannelisationCodes =value as per relevant table
	tbSizeIndexOnHS_SCCH =TFRI value as per relevant table
	example:
	if input is physical category =1,modScheme=qpsk,Num Of PDU's =10
	TSO returns
	flag = TRUE
	noOfChannelisationCodes =5
	tbSizeIndexOnHS_SCCH =45
	If input is category =1,modScheme=qpsk,Num Of PDU's =17
	TSO returns
	flag = FALSE
	noOfChannelisationCodes =0
	tbSizeIndexOnHS_SCCH =0

Table 160: HSDPA_TestPoint

Structure Type Definition			
Type Name: HSDPA_Test	Point		
Encoding Variation:			
Comments: To provide the	Comments: To provide the information to SS to send data in every TTI on each RAB. Number of RBs		
depends on specific requirement. SS shall take care about all kind of discard info in all RLC modes and final aim is DL TFCs under test shall be selected in downlink for each TTI.			
Element name	Type Definition	Field Encoding	Comments
flag	BOOLEAN		TRUE if test point is applicable
noOfChannelisationCode s	INTEGER		Range 1 to 15 Valid value ifflag =TRUE
tbSizeIndexOnHS_SCCH	INTEGER		

8.7.6 Specific test suite operation for Intersystem HS Testing

Table 161: TSO definitions for ISHO_HS testing

TSO Name	Description
o_TTCN_SysInfoToOctetSt	Type of the result: OCTETSTRING
ring	
	Parameters:
	p_Type: INTEGER
	p_PDU : PDU
	Description:
	The function of the o_TTCN_SysInfoToOctetString is as the follows:
	- It returns the octetstring representation of the input System Information message
	p_PDU.
	- The parameter p_Type details the type of SI message. Expected values: 1, 3 and 13.

8.7.7 Specific test suite operation for A-GPS testing

Table 162: TSO definitions in A-GPS

TSO Name	Description
o_PositionEstimateToGeoInfo	Type of the result: Ext_GeographicalInformation
	Parameters: p_PosEst: PositionEstimate
	p_rosest. rositionestimate
	Description:
	Converts, according to TS 23.032, clause 7, the position estimate sent by the UE in a
	MEASUREMENT REPORT message from type Position Estimate to type
	Ext_GeographicalInformation in order to be included in the FACILITY message sent by the SS in MO-LR UE-Based test cases.
	and do in the Live E Bassa took sacce.
	The definition of the types is the following:
	PositionEstimate::= CHOICE
	CHOICE
	ellipsoidPoint EllipsoidPoint,
	ellipsoidPointUncertCircle EllipsoidPointUncertCircle,
	ellipsoidPointUncertEllipse EllipsoidPointUncertEllipse,
	ellipsoidPointAltitude EllipsoidPointAltitude, ellipsoidPointAltitudeEllipse EllipsoidPointAltitudeEllipsoide
	}
	with one of the following options being expected from the UE:
	EllipsoidPointUncertCircle ::=
	SEQUENCE
	{ latitudeSign ENUMERATED {north(0), south(1)},
	latitude INTEGER (08388607),
	longitude INTEGER (-83886088388607),
	uncertaintyCode INTEGER (0127)
	}
	or
	EllipsoidPointUncertEllipse ::= SEQUENCE
	{
	latitudeSign ENUMERATED {north(0), south(1)},
	latitude INTEGER (08388607),
	longitude INTEGER (-83886088388607), uncertaintySemiMajor INTEGER (0127),
	uncertaintySemiMinor INTEGER (0127),
	orientationMajorAxis INTEGER (089),
	confidence INTEGER (0100)
	or
	EllipsoidPointAltitudeEllipse ::=
	SEQUENCE
	{
	latitudeSign ENUMERATED {north(0), south(1)},
	latitude INTEGER (08388607), longitude INTEGER (-83886088388607),
	altitudeDirection ENUMERATED {height(0), depth(1)},
	altitude INTEGER (032767),
	uncertaintySemiMajor INTEGER (0127), uncertaintySemiMinor INTEGER (0127),
	orientationMajorAxis INTEGER (0127),
	uncertaintyAltitude INTEGER (0127),
	confidence INTEGER (0100)
	}
	1

TSO Name	Description
	The definition of the resulting type is:
	Ext-GeographicalInformation ::= OCTET STRING (SIZE (1maxExt-GeographicalInformation))
	maxExt-GeographicalInformation INTEGER ::= 20
	For example:
	<pre>p_PositionEstimate:= ellipsoidPointUncertCircle</pre>
145 T 40N40 /	o_PositionEstimateToGeoInfo (p_PositionEstimate) = '10 00 00 7B 00 11 D7 08'O
o_IA5_ToASN1Oct	Type of the result: NameString Parameters: p_String: IA5String
	Providence of the control of the con
	Description: Converts the string p_String from IA5String type to NameString according to the Data Coding Scheme '0F'O.
	This data coding scheme is the only one used in the AGPS ATS. It packs 7bit ASCII onto 8 bit octets.
	Applicable ASN.1 definitions:
	LCSClientName ::= SEQUENCE { dataCodingScheme [0] IMPLICIT USSD-DataCodingScheme, nameString [2] IMPLICIT NameString }
	The USSD-DataCodingScheme shall indicate use of the default alphabet through the
	following encoding bit 7 6 5 4 3 2 1 0 0 0 0 0 1 1 1 1
	NameString ::= USSD-String (SIZE (1maxNameStringLength))
	maxNameStringLength INTEGER ::= 63
	USSD-DataCodingScheme ::= OCTET STRING (SIZE (1)) The structure of the USSD-DataCodingScheme is defined by the Cell Broadcast Data Coding Scheme as described in TS 3GPP TS 23.038 [25]
	USSD-String ::= OCTET STRING (SIZE (1maxUSSD-StringLength)) The structure of the contents of the USSD-String is dependent on the USSD-DataCodingScheme as described in TS 3GPP TS 23.038 [25].
	maxUSSD-StringLength INTEGER ::= 160
	The ATS uses:
	IcsClientName { dataCodingScheme '0F'O, The USSD-DataCodingScheme shall indicate use of the default alphabet through the following encoding bit 7 6 5 4 3 2 1 0 0 0 0 0 1 1 1 1
	For example: o_IA5_ToASN1Oct ("ERICH") = '4569728804'O

TSO Name	Description
	Type of the result: ISDN_AddressString
	Parameters:
	p_TOA: B4 p_NPI: B4
	p_String: IA5String
	Possitivities
	Description: Converts p_TOA plus p_NPI, and string p_String to ISDN_AddressString.
	TOA and NPI are mapped onto the first octet.
	Each pair of characters of p_String is considered a pair of numbers to be mapped onto
	1 octet. Each character of p_String shall represent a digit (09).
	In case the number of characters is odd, then a filler '1111'B is used to fill the last octet
	required to represent the digits. See 3G TS 24008, clause 10.5.4.7
	Applicable ASN.1 definitions:
	LCSClientExternalID ::= SEQUENCE {
	externalAddress [0] IMPLICIT ISDN-AddressString OPTIONAL,
	extensionContainer [1] IMPLICIT ExtensionContainer OPTIONAL
	}
	ISDN-AddressString ::= AddressString (SIZE (1maxISDN-AddressLength))
	This type is used to represent ISDN numbers.
	maxISDN-AddressLength INTEGER ::= 9
	AddressString ::= OCTET STRING (SIZE (1maxAddressLength))
	This type is used to represent a number for addressing
	purposes. It is composed of
	a) one octet for nature of address, and numbering plan indicator.
	b) digits of an address encoded as TBCD-String.
	a) The first octet includes a one bit extension indicator, a
	3 bits nature of address indicator and a 4 bits numbering
	plan indicator, encoded as follows:
	bit 8: 1 (no extension)
	bits 765: nature of address indicator
	000 unknown
	001 international number 010 national significant number
	011 network specific number
	100 subscriber number
	101 reserved 110 abbreviated number
	111 reserved for extension
	bits 4321: numbering plan indicator
	0000 unknown
	0001 ISDN/Telephony Numbering Plan (Rec ITU-T E.164)
	0010 spare 0011 data numbering plan (ITU-T Rec X.121)
	0110 telex numbering plan (ITU-T Rec F.69)
	0101 spare
	0110 land mobile numbering plan (ITU-T Rec E.212)
	0111 spare 1000 national numbering plan
	1001 private numbering plan
	1111 reserved for extension
	all other values are reserved.
	b) The following octets representing digits of an address encoded as a TBCD-STRING.

TSO Name	Description
	maxAddressLength INTEGER ::= 20
	For example: o_ISDN_Address_ToASN1Oct ('0011','0011',"0123456") = '33103254F6'O
o_LengthofComponents	Type of the result: OCTETSTRING Parameters: p_Components: Components
	Description: The functionality of the o_LengthofComponents is as below: It returns the length (no. of octets) of the input constraint p_Components

8.7.8 Specific test suite operation for E-DCH Testing

Table 163: TSO definitions in E-DCH

TSO Name	Description
o_CalculateE_DCH_TBSize	Type of the result: INTEGER Parameters:
	p_tti: E_DCH_TTI
	p_TableInd: E_TFCI_TableIndex
	p_TB_Index: INTEGER
	Description:
	TSO implements tables defined in 25.321 Annex B.1 (tti 2ms Index 0), Annex B.2 (tti 2ms Index 1), Annex B.3 (tti 10ms Index 0), Annex B.4 (tti 10ms Index 1).
	It accepts 3 input parameters: p_TTI: the TTI of E-DCH (2ms or 10ms)
	P_TableInd: the table index (0 or 1)
	p_TB_Index: the TB index in the table (0127 for tti 2ms Index 0), (0125 tti 2ms Index 1), (0127 tti 10ms Index 0), (0120 tti 10ms Index 1)
	The TSO then returns the corresponding TB Size from the appropriate Table and with given table index.
	The value returned is '0' for any erroneous conditions (e.g. p_TB_Index out of range).
	Example:
	p_tti:2ms, p_TableInd:0, p_TB_Index:13 produces the result 185

8.7.9 Specific test suite operation for E-DCH/HS-ENH and MBMS testing

Table 164: TSO definitions in E-DCH/HS-ENH and MBMS

TSO Name	Description
o_CalculateTBSize_MAC_ehs	Type of the result: INTEGER
	Parameters:
	p_Kt: INTEGER
	Description:
	The TSO calculates the value of TB size L(p_Kt) as given in 25.321 clause 9.2.3.1
	Kt valid range is from 1 to 295(both included)
	If p_Kt < 40
	$L(p_Kt) = (14+p_Kt) * 8$
	else
	L(p_Kt) = Floor(Lmin * (P ** p_Kt)*8) Lmin = 27
	P= [2274/27]**[1/295]
	end
	Where
	* represents multiplication ** represents power
o_CalculateTestPoint336_MA	Type of the result: HSDPA_TestPoint
C_ehs	Parameters:
	p_PhyCat: HSDSCH_physical_layer_category_ext;
	p_ModScheme: ModulationScheme;
	p_NumOfPDU: INTEGER
	Description:
	TSO implements tables 14.1.3.4b.1.1 for QPSK, 14.1.3.4b.1.2 for 16QAM and
	14.1.3.4b.1.3 for 64QAM.
	It asserts as insult.
	It accepts as input: - UE category (13 to 18),
	- Modulation scheme (qpsk, qam16 or qam64) and
	- Number of MAC-d PDU's (1 to 70)
	If a test point is not defined for this combination of input, then returns flag = FALSE
	noOfChannelisatonCodes =0
	tbSizeIndexOnHS_SCCH =0
	If a test point is defined for the combination of inputs, it returns,
	flag = TRUE
	noOfChannelisatonCodes =value as per relevant table tbSizeIndexOnHS_SCCH =TFRI value as per relevant table
	isolzenidexeni io_eeen = 11 Ki valde as per folevant tasie
	Example:
	If input is:
	- physical category = 13, - modScheme = qpsk,
	- Num Of PDU's = 10
	TSO returns:
	flag = TRUE
	noOfChannelisatonCodes =11
	tbSizeIndexOnHS_SCCH =1
	If input is:
	- physical category = 13,
	- modScheme = qpsk,
	- Num Of PDU's = 50
	TSO returns: flag = FALSE
	noOfChannelisatonCodes = 0
	tbSizeIndexOnHS_SCCH = 0
o_CalculateTestPoint656_MA	Type of the result: HSDPA_TestPoint
C_ehs	Parameters:
	p_PhyCat: HSDSCH_physical_layer_category_ext;

TSO Name	Description	
	p_ModScheme: ModulationScheme;	
	p_NumOfPDU: INTEGER	
	Description:	
	TSO implements tables 14.1.3.4b.2.1 for QPSK, 14.1.3.4b.2.2 for 16QAM and	
	14.1.3.4b.2.3 for 64QAM.	
	Nt Sanuti	
	It accepts as input:	
	- UE category (13 to 18), - Modulation scheme (qpsk, qam16 or qam64) and	
	- Number of MAC-d PDU's (1 to 64)	
	Trumber of Wino a 1 Bo 3 (1 to 64)	
	If a test point is not defined for this combination of input, then returns	
	flag = FALSE	
	noOfChannelisatonCodes =0	
	tbSizeIndexOnHS_SCCH =0	
	If a test point is defined for the combination of inputs, it returns,	
	flag = TRUE	
	noOfChannelisatonCodes =value as per relevant table	
	tbSizeIndexOnHS_SCCH =TFRI value as per relevant table	
	Example:	
	If input is:	
	- physical category = 13,	
	- modScheme = qpsk,	
	- Num Of PDU's = 10	
	TSO returns:	
	flag = TRUE	
	noOfChannelisatonCodes =15	
	tbSizeIndexOnHS_SCCH =21	
	M toward to	
	If input is:	
	- physical category = 13, - modScheme = qpsk,	
	- ModScheme = qpsk, - Num Of PDU's = 50	
	TSO returns:	
	flag = FALSE	
	noOfChannelisatonCodes = 0	
	tbSizeIndexOnHS_SCCH = 0	
o_OctetstringXtract	Type of the result: OCTETSTRING	
	Parameters:	
	p_Str: OCTETSTRING	
	p_SrcLen, p_TargetLen, p_Offset: INTEGER	
	Description:	
	Performs the wrap around extract of an octetstring. The length of the string from which	
	extraction is to be made is specified in p_SrcLen.	
	The length of the bitstring to be extracted is indicated as p_TargetLen, the offset in the	
	original string is indicated in p_Offset.	
	The octet position 0 is at the left.	
	Returns a resulting octetstring of length p_TargetLen.	
	Examples:	
	o Octobatring Vtroot/UARCADIO 6 2 1) produces IARIO	
	o_OctetstringXtract('1ABC10'O, 6, 2, 1) produces 'AB'O. o_OctetstringXtract('101ABC'O, 6, 4, 3) produces 'ABC1'O, wrapping around.	
	o_OctetstringXtract('EF2000'O, 6, 4, 5) produces '0EF2'O, wrapping around.	

8.8 AT commands

Table 165 shows a list of AT commands. By using these commands the ATSs communicate with the SS for an automatic execution. The column "ATS" indicates in which ATS the command is used.

Table 165: AT commands used in 3GPP ATSs

Command	Reference	ATS	
+CGACT	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS	
+CGATT	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS	
+CGCMOD	3GPP TS 27.007 [23]	NAS	
+CGDCONT	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS	
+CGDSCONT	3GPP TS 27.007 [23]	NAS	
+CGEQREQ	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS	
+CLCC	3GPP TS 27.007 [23]	NAS	
Н	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS	
+CBST	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS	
+CMOD	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS	
Α	3GPP TS 27.007 [23]	NAS, RAB, RRC, SMS	
D	3GPP TS 27.007 [23]	BMC, MAC, NAS, RAB, RLC, RRC, PDCP, SMS	
+ CMGD	3GPP TS 27.005 [22]	SMS	
+ CMGF	3GPP TS 27.005 [22]	SMS	
+CMGW	3GPP TS 27.005 [22]	SMS	
+CMSS	3GPP TS 27.005 [22]	NAS, RAB, RRC, SMS	
+CPMS	3GPP TS 27.005 [22]	SMS	
+CSCA	3GPP TS 27.005 [22]	SMS	
+CSCS	3GPP TS 27.005 [22]	SMS	
+CSMS	3GPP TS 27.005 [22]	SMS	
+CVHU	3GPP TS 27.005 [22]	NAS, RAB, RRC, SMS, IR_U, IR_G	
+CHUP	3GPP TS 27.005 [22]	NAS, RAB, RRC, SMS, IR_U, IR_G	

8.8.1 AT command lists in ATSs

8.8.1.1 AT commands in IR_U ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80, 81,82,83,84,115,116,120,121 <name>=0,1,4,5 <ce>=0,1</ce></name></speed></cr></ce></name></speed>	Select bearer service type, TS 27.007 clause 6.7
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, TS 27.007 clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, TS 27.007 clause 10.1.9
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, TS 27.007 clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
CHUP	AT+CHUP <cr></cr>	Hang up call, TS 27.007 clause 6.5
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, TS 27.007 clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, TS 27.005 clause 3.5.2
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, TS 27.007 clause 6.20

8.8.1.2 AT commands in MAC and RLC ATS:

Command	Syntax in TTCN	Comments
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, 3GPP TS 27.007 [23], clause 10.1.9

8.8.1.3 AT commands in NAS ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,82,8 3,84,115,116,120,121 <name>=0,1,4,5</name></speed></cr></ce></name></speed>	Select bearer service type, TS 27.007 clause 6.7
CGACT	<pre><ce>=0,1 AT+CGACT=1,1<cr> AT+CGACT=0,1<cr></cr></cr></ce></pre>	PDP context activate or deactivate, 3GPP TS 27.007 [23] clause 10.1.10
CGATT	AT+CGATT=1 <cr> AT+CGATT=0<cr></cr></cr>	PS attach or detach, 3GPP TS 27.007 [23] clause 10.1.9
CGDATA	AT+CGDATA=PPP,1 <cr></cr>	Enter data state, 3GPP TS 27.007 [23] clause 10.1.12
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	Define PDP Context, 3GPP TS 27.007 [23] clause 10.1.1
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, 3GPP TS 27.007 [23] clause 10.1.2
CGEQMIN	AT+CGEQMIN=1,3,32,32,,1,320,"1E3","4E3",1,, <cr> AT+CGEQMIN=1,3,64,64,,1,320,"1E3","4E3",1,,<cr> AT+CGEQMIN=1,2,32, 32, 32, 32, 1, 320, 1E4,6E8,1,,,<cr> AT+CGEQMIN=1,3,32, 32, 32, 32, 1, 320, 1E4,6E8,1,,,<cr> AT+CGEQMIN=1,2,32, 32, 32, 32, 1, 320, 1E3,6E8,1,,,<cr> AT+CGEQMIN=1,3,32, 32, 32, 32, 1, 320, 1E3,6E8,1,,,<cr> AT+CGEQMIN=1,2,64, 64, 64, 64, 1, 320, 1E3,6E8,1,,,<cr> AT+CGEQMIN=1,3,64, 64, 64, 64, 1, 320, 1E3,6E8,1,,,<cr> AT+CGEQMIN=1,3,64, 64, 64, 64, 1, 320, 1E3,6E8,1,,,<cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>	Quality of Service Profile (Minimum acceptable), 3GPP TS 27.007 [23] clause 10.1.4
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr> AT+CGEQREQ=1,2,64, 64, 64, 64, 0, 320, 1E4,6E8,1,,,<cr> AT+CGEQREQ=1,3,64, 64, 64, 64, 0, 320, 1E4,6E8,1,,,<cr></cr></cr></cr></cr>	Quality of Service Profile (Requested), 3GPP TS 27.007 [23] clause 10.1.4
CHUP	AT+CHUP <cr></cr>	Hang up call, 3GPP TS 27.007 [23] clause 6.5
CLCC	AT+CLCC <cr></cr>	List current calls, 3GPP TS 27.007 [23] clause 7.18
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, 3GPP TS 27.007 [23] clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, 3GPP TS 27.005 [22] clause 3.5.2
VTS	AT+VTS=0,100 <cr> AT+VTS=1,50<cr> AT+VTS=2,60<cr> AT+VTS=3,40<cr> AT+VTS=3,40<cr> AT+VTS=6,60<cr> AT+VTS=6,70<cr> AT+VTS=6,70<cr> AT+VTS=6,70<cr> AT+VTS=7,80<cr> AT+VTS=8,90<cr> AT+VTS=8,90<cr> AT+VTS=9,100<cr> AT+VTS=#,110<cr> AT+VTS=#,110<cr> AT+VTS=A,130<cr> AT+VTS=A,130<cr> AT+VTS=B,140<cr> AT+VTS=B,140<cr> AT+VTS=C,150<cr> AT+VTS=C,150<cr> AT+VTS=D,200<cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr></cr>	DTMF and tone generation, 3GPP TS 27.007 [23] clause C.2.11
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, 3GPP TS 27.007 [23] clause 6.20

8.8.1.4 AT commands in RAB ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,8 2,83,84,115,116,120,121 <name>=0,1,4,5 <ce>=0,1</ce></name></speed></cr></ce></name></speed>	Select bearer service type, 3GPP TS 27.007 [23] clause 6.7
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, 3GPP TS 27.007 [23] clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, 3GPP TS 27.007 [23] clause 10.1.9
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	Define PDP Context, 3GPP TS 27.007 [23] clause 10.1.1
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, 3GPP TS 27.007 [23] clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), 3GPP TS 27.007 [23] clause 10.1.4
CHUP	AT+CHUP <cr></cr>	Hang up call, 3GPP TS 27.007 [23] clause 6.5
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, 3GPP TS 27.007 [23] clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, 3GPP TS 27.005 [22] clause 3.5.2
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, 3GPP TS 27.007 [23] clause 6.20

8.8.1.5 AT commands in RRC ATS:

Command	Syntax in TTCN	Comments
ATA	ATA <cr></cr>	Answer a call, TS 27.007 clause 6.35
ATD	ATD0123456902; <cr> ATD112;<cr> ATD0123456902<cr></cr></cr></cr>	Originates a call, TS 27.007 clause 6.31
ATH	ATH <cr></cr>	Hang-up a single mode call, TS 27.007 clause 6.36
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81,8 2,83,84,115,116,120,121 <name>=0,1,4,5 <ce>=0,1</ce></name></speed></cr></ce></name></speed>	Select bearer service type, TS 27.007 clause 6.7
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, TS 27.007 clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, TS 27.007 clause 10.1.9
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	Define PDP Context, TS 27.007 clause 10.1.1
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, TS 27.007 clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
CHUP	AT+CHUP <cr></cr>	Hang up call, TS 27.007 clause 6.5
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, TS 27.007 clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, TS 27.005 clause 3.5.2
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, TS 27.007 clause 6.20

8.8.1.6 AT commands SMS ATS:

Command	Syntax in TTCN	Comments
CBST	AT+CBST=[<speed>[,<name>[,<ce>]]]<cr> <speed>=0,7,12,14,15,16,17,39,43,47,48,49,50,51,71,75,79,80,81 ,82,83,84,115,116,120,121 <name>=0,1,4,5 <ce>=0,1</ce></name></speed></cr></ce></name></speed>	Select bearer service type, TS 27.007 clause 6.7
CGACT	AT+CGACT=1,1 <cr> AT+CGACT=0,1<cr></cr></cr>	PDP context activate or deactivate, TS 27.007 clause 10.1.10
CGATT	AT+CGATT=1 <cr></cr>	PS attach or detach, TS 27.007 clause 10.1.9
CGDCONT	AT+CGDCONT=1,"IP","ABCDEF","200.1.1.80",0,0 <cr> AT+CGDCONT=1,"IP","GHIJK","200.1.1.90",0,0<cr></cr></cr>	Define PDP Context, TS 27.007 clause 10.1.1
CGDSCONT	AT+CGDSCONT= 1, <cr> AT+ CGDSCONT=1 , 1, "IP", 0,0,<cr></cr></cr>	Establish secondary PDP Context, TS 27.007 clause 10.1.2
CGEQREQ	AT+CGEQREQ=1,2,64,64,,,0,320,"1E4","1E5",1,,3 <cr> AT+CGEQREQ=1,3,64,64,,,0,320,"1E4","1E5",1,,<cr></cr></cr>	Quality of Service Profile (Requested), TS 27.007 clause 10.1.4
CGSMS	AT+CGSMS=1 <cr> AT+CGSMS=0<cr></cr></cr>	Select service for MO SMS messages, TS 27.007 clause 10.1.20
CHUP	AT+CHUP <cr></cr>	Hang up call, TS 27.007 clause 6.5
CMGD	AT+CMGD=001 <cr> AT+CMGD=1,4<cr></cr></cr>	Delete Message, TS 27.005 clause 3.5.4
CMGF	AT+CMGF=1 <cr></cr>	Message Format, TS 27.005 clause 3.2.3
CMGR	AT+CMGR=001 <cr> AT+CMGR=002<cr> AT+CMGR=003<cr> AT+CMGR=004<cr></cr></cr></cr></cr>	Read Message, TS 27.005 clause 3.4.3
CMGW	AT+CMGW= "1111111111",129, "The quick brown fox jumps over the lazy dog's back. Kaufen Sie Ihrer Frau vier bequeme Pelze 0123456789 - THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG'S BACK." <cr></cr>	Write Message to Memory, TS 27.005 clause 3.5.3
CMMS	AT+CMMS=1 <cr></cr>	More Messages to Send, TS 27.005 clause 3.5.6
CMOD	AT+CMOD=0 <cr> AT+CMOD=1<cr></cr></cr>	Call mode, TS 27.007 clause 6.4
CMSS	AT+CMSS=000 <cr> AT+CMSS=001<cr> AT+CMSS=002<cr></cr></cr></cr>	Send Message from Storage, TS 27.005 clause 3.5.2
CPMS	AT+CPMS="SM,"SM","MT" <cr> AT+CPMS="CB","CB","CB"<cr></cr></cr>	Preferred Message Storage, TS 27.005 clause 3.2.2
CSCA	AT+CSCA="2222222222",129 <cr></cr>	Service Centre Address, TS 27.005 clause 3.3.1
CSCS	AT+CSCS="GSM" <cr></cr>	Select TE character set, TS 27.007 clause 5.5
CSMS	AT+CSMS=0 <cr></cr>	Select Message Service, TS 27.005 clause 3.2.1
CVHU	AT+CVHU=0 <cr></cr>	Voice Hang up control, TS 27.007 clause 6.20

8.8.1.7 AT commands in HSDPA ATS (Rel-5 or later):

8.8.1.8 AT commands for E-DCH testing (Rel-6 or later) and HS-ENH testing (Rel-7 or later)

Command	Syntax in TTCN	Comments
CGEQREQ	AT+CGEQREQ=[<cid> [,<traffic class=""> [,<maximum bitrate="" ul=""></maximum></traffic></cid>	Quality of Service Profile
	[, <maximum bitrate="" dl=""> [,<guaranteed bitrate="" ul=""> [,<guaranteed< td=""><td>(Requested), TS 27.007 clause</td></guaranteed<></guaranteed></maximum>	(Requested), TS 27.007 clause
	bitrate DL> [, <delivery order=""> [,<maximum sdu="" size=""> [,<sdu error<="" td=""><td>10.1.4</td></sdu></maximum></delivery>	10.1.4
	ratio> [, <residual bit="" error="" ratio=""> [,<delivery erroneous="" of="" sdus=""></delivery></residual>	
	[, <transfer delay=""> [,<traffic handling="" priority="">]]]]]]]]]]] <cr></cr></traffic></transfer>	
	<cid> =1</cid>	
	<traffic class=""> =2, 3</traffic>	
	<maximum bitrate="" ul=""> = See clause 8.10.2</maximum>	
	<maximum bitrate="" dl=""> = See clause 8.10.1</maximum>	
	<guaranteed bitrate="" ul=""> Not used</guaranteed>	
	<guaranteed bitrate="" dl=""> Not used</guaranteed>	
	<delivery order=""> =0</delivery>	
	<maximum sdu="" size=""> =320, 640</maximum>	
	<sdu error="" ratio=""> = '1E4'</sdu>	
	<residual bit="" error="" ratio=""> ='1E5'</residual>	
	<delivery erroneous="" of="" sdus=""> =1</delivery>	
	<transfer delay=""> Not used</transfer>	
	<traffic handling="" priority=""> =3</traffic>	

8.8.2 AT Command Handling in TTCN

8.8.2.1 AT Command Interface

The AT Command Interface resides between the UE and the System Simulator (SS). The implementation of AT commands in the UE is optional[3]. It is agreed, however, that it is the responsibility of the SS - not the ATS - to map AT commands onto appropriate MMI commands. This means that the ATSs issue AT commands which have to be mapped appropriately and forwarded to the UE, and vice versa.

The ATSs have been implemented in such a way that AT commands are to be answered immediately. This means that the TTCN expects the answers right away and progresses only afterwards. As a consequence only positive AT responses are assumed.

There is only one exception from the rule of immediate answering: the CGACT command. For this command the TTCN does not expect an immediate AT response. Once the CGACT command has been issued a subsequent UE behaviour is

expected. The AT response is issued by the UE only after execution of the AT command, and it will only then be accounted for by the ATSs.

8.8.2.2 AT Command Dialogues

In some cases AT commands trigger a dialogue between the AT command interface and the UE. An example used in the SMS ATS is the CMGW command.

```
EXAMPLE: AT+CMGW="9501231234" (write message)

> This is the message body^Z

+CMGW: 7 (index number in storage returned)
```

A special character (^Z) marks the end of the dialogue.

The ATSs generate information to be sent to the UE as one block. If the command mapping function cannot proceed with the dialogue that way, it has to divide the received block into the appropriate pieces prior to forwarding them.

8.8.2.3 AT Response Types

The term 'response type' shall allow a distinction between different types of contents to answer upon an AT command issued by the TTCN.

8.8.2.3.1 'OK' Response

Most AT commands are to be answered with 'OK'. All exceptions are according to 3GPP 27.007 [23], for example +CGDATA is to be answered with 'CONNECT'.

8.8.2.3.2 Name String

There are a number of AT commands which, in the positive case, trigger an answer string from UEs. Such strings start with the command which is being answered.

```
EXAMPLE: AT+CPMS? (check memory settings)
+CPMS: "ME",4,10,"ME",4,10,"ME",4,10
```

The implementation of this type of AT commands is such that the TTCN expects and checks the beginning of the response string. This would (later) facilitate possible direct connections between SS and UE.

8.8.2.3.3 Error strings

There are situations when the UE cannot react positively upon an AT command. Different types of reactions are foreseen. The strings 'ERROR' or 'CMS ERROR: <err>' may be issued by UEs.

"...subparameter values of a command are not accepted by the TA (or command itself is invalid, or command cannot be performed for some reason), result code <CR><LF>ERROR<CR><LF> is sent to the TE and no subsequent commands in the command line are processed."

"Final result code +CMS ERROR: <err> indicates an error related to mobile equipment or network. The operation is similar to ERROR result code. None of the following commands in the same command line is executed. Neither ERROR nor OK result code shall be returned. ERROR is returned normally when error is related to syntax or invalid parameters."

The chosen way of realization prevents, in general, that error strings generated by the UE are passed to the SS. This holds for both intended and unintended errors (from the tester perspective).

8.8.2.4 AT Command Parameters And Options

Many AT commands take parameters some of which are optional. Thus, there is a degree of freedom left to the UEs. This freedom is widely used in the AT commands used in the SMS ATS. To allow flexible parameterization PIXIT items can be used to set the parameters as understood by the UEs.

An example of such parameters are the preferred memories to be used when testing.

8.9 Bit padding

Three different kinds of bit padding at the RRC layer are defined in 3GPP TS 25.331 [21].

If a bit string is defined in ASN.1 and is an output from a (PER) encoder, it may need the segmentation and padding. One example is that each SIB message is PER-encoded and becomes a (PER) bit-string. A long bit-string is segmented in fixed length, for example with 222 bits. The (1 ... 7) padding bits shall be added at the last segment if it's length is between 215 and 211.

No bit padding shall be generated by the PER encoder. Contrary to ITU-T Recommendation X.691 [28], the unaligned PER encoder shall not generate any padding bit to achieve octet alignment at the end of a PER bit string.

RRC padding. The RRC padding bits shall be generated after PER encoder. If the PER bit strings are exchanged via AM or UM SAP, the (1 ... 7) padding bits shall be added to ensure the octet alignment. If the PER bit strings are exchanged via TR SAP, before the exchanges, RRC shall select the smallest transport format that fits the RRC PDU and shall add the lowest number of padding bits required to fit the size specified for the selected transport format. The RRC padding bits shall be taken into account at the calculation of the integrity checksum.

8.9.1 Requirements for implementation

The different kinds of bit padding occur at the different places in the testing architecture. Care must be taken, in order to ensure the correct implementation.

The bit padding for the embedded bit string in ASN.1shall be resolved in TTCN. It is under the responsibility of the TTCN writer. Several TSO defined can resolve the necessary bit padding in the downlink direction.

The unaligned PER encoder used for TTCN shall not implement the octet alignment at the end of a PER bit string in the downlink direction.

The RRC padding should be implemented at the SS in the downlink direction both for AM/UM and TR modes according to 3GPP TS 25.331 [21], clause 12.1.3.

The SS PER decoder has no need to distinguish the extension and padding parts in the UL direction, and shall match and accept RRC PDUs with any bit string in the extension and padding parts. The remaining part of the received bit string shall be discarded regardless of the RLC mode.

8.10 Test PDP contexts

Table 166 defines test PDP contexts used in the generic procedures for the PS establishment and other SM tests. The test PDP contextDch1 is the default Test PDP context used in the test cases where no particular Test PDP contexts are specified and UE is in DCH state. The test PDP contextFach is the default Test PDP context used in the test cases where no particular Test PDP contexts are specified and UE is in FACH state.

Table 166: Test PDP contexts

	PDP	PDP
	ContextDch	ContextFach
NSAPI	Selected by UE in Activate PDP	Selected by UE in Activate PDP
	Context Request	Context Request
LLC SAPI	0	0
QoS	QoSDch-UL64kAM-DL64kAM	QoSFach- UL32kAM-DL32kAM
PDP address	PIXIT	PIXIT
Radio Priority	1	1
Access Point Name	tsc_AccessPtNameDCH	tsc_AccessPtNameFACH
	"ABCDEF"	"GHIJK"
Protocol configuration	-	-
options		
Packet Flow Identifier	Best Effort	Best Effort

Table 167: Test QoS

	QoSDch-UL64kAM-DL64kAM	QoSFach- UL32kAM-DL32kAM				
Reliability class	'011'B	'011'B				
	Unacknowledged GTP, LLC, and	Unacknowledged GTP, LLC, and				
	acknowledged RLC; Protected data	acknowledged RLC; Protected data				
Delay class	'011'B / '100'B	'011'B / '100'B				
	3 / 4 (Best effort)	3 / 4 (Best effort)				
Precedence class	UL:'000'B, Subscribed	UL:'000'B, Subscribed				
	DL:'011'B	DL:'011'B				
	Class 3	Class 3				
Peak throughput	'0100'B	'0011'				
	8 000 Octets/s	Up to 4 000 octet/s				
Mean throughput	'11111'B	'11111'B				
	Best Effort	Best Effort				
Delivery of erroneous SDU	'010' B	'010' B				
	Erroneous SDUs are delivered ('yes')	Erroneous SDUs are delivered ('yes')				
Delivery order	'10'B	'10'B				
	With delivery order ('yes')	With delivery order ('yes')				
Traffic class	'011' B / '100'B	'011' B / '100'B				
	Interactive / Background	Interactive / Background				
Maximum SDU size	'20' O	'20'O				
	320 bits]	320 bits				
Maximum bit rate for uplink	'40' O	'20'O				
-	64 kbps	32 kbps				
Maximum bit rate for	'40' O	'20'O				
downlink	64 kbps	32 kbps				
Residual BER	'0111'	'0111'				
	1X10E-5	1X10E-5				
SDU error ratio	'0100'B	'0100'B				
	1X10E-4	1X10E-4				
Traffic Handling priority	UL: '00'B for Interactive,	UL: '00'B for Interactive,				
	Any for Background	Any for Background				
	DL: '11' B (for Interactive, for	DL: '11' B (for Interactive, for				
	Background to be neglected by UE)	Background to be neglected by UE)				
Transfer delay	UL: Any	UL: Any				
	DL: '111111' B	DL: '111111' B				
	spare (not applicable for Interactive /	spare (not applicable for Interactive /				
	Background)	Background)				
Guaranteed bit rate for	UL: Any	UL: Any				
uplink	DL: '10' O	DL: '10'O				
	16 kbps	32 kbps				
Guaranteed bit rate for	UL: Any	UL: Any				
downlink	DL: '10' O	DL: '10'O				
	16 kbps	16 kbps				
NOTE: Residual BER 1X10E-5 corresponds to CRC 16.						

8.10.1 Mapping of Quality of service and AT command for HSDPA testing

Table 168 defines the encoding of the Maximum bit rate for downlink IE in QoS and the corresponding encoding in the AT command.

Table 168: Test QoS in HSDPA test cases (Rel-5 or later)

UE HS-DSCH Category	Min inter-TTI interval (TTI=2ms)	Max number of bits of an HS-DSCH TB received within an HS-DSCH TTI (NOTE 1)	Max number of MAC- d PDUs in a single MAC-hs PDU with RLC payload size 640 bits (NOTE 2)	Max bit rate (kbps)	Max bit rate for DL QoS (Octetstring)	AT command for Max bit rate of DL QoS (IA5string)
1, 2	3	7298	11	1173	89	1152
3, 4	2	7298	11	1760	92	1728
5, 6	1	7298	11	3520	AE	3520
7, 8	1	14411	21	6720	E0	6720
9	1	20251	30	9600	FE (octet 9) 0A (octet 15)	9600
10	1	27952	42	13440	FE (octet 9) 30 (octet 15)	13400
11	2	3630	5	800	83	768
12	1	3630	5	1600	90	1600
13, 17(64QAM)	1	34800	53	16960	FE (octet 9) 4A (octet 15)	16000
14, 18(64QAM)	1	42196	64	20480	FE (octet 9) 4E (octet 15)	20000
15, 17(MIMO)	1	23370	35	11200	FE (octet 9) 1A (octet 15)	11200
16, 18(MIMO)	1	27952	42	13440	FE (octet 9) 30 (octet 15)	13400

NOTE 1: Refer to 3GPP TS 25.306 [16a]

NOTE 2: The maximum number of single-sized MAC-d PDUs in a single MAC-hs PDU is calculated with the formula:

- Max number MAC-d PDU = DIV ((MAX TB size MAC-hs header fixed part), MAC-d PDU size)
- where MAC-d PDU size = 640 + 16 = 656
- MAC-hs header fixed part = Length of MAC-hs fixed header (VF + Queue Id + TSN) + Length of MAC-hs flexible header (SID + N + F) = 21 bits

Example of calculation for category 1: Max number MAC-d PDU = DIV((7298-21), 656) = 11

8.10.2 Mapping of Quality of service and AT command for E-DCH testing

Table 169 defines the encoding of the Maximum bit rate for uplink IE in QoS and the corresponding encoding in the AT command.

UE E-DCH Category	Max number of bits of an E-DCH TB transmitted within an E-DCH TTI (NOTE 1)	TTI	Max number of MAC-d PDUs in a single MAC- e/es PDU with RLC paylaod size 320 bits (NOTE 2)	Max bit rate (kbps)	Max bit rate for UL QoS (Octetstring)	AT command for Max bit rate of UL QoS (IA5string)
1	7110	10ms	21	672	81	640
2	2798	2ms	8	1280	8B	1280
2	2798	10ms	8	256	58	256
3	14484	10ms	43	1376	8C	1344
4	5772	2ms	17	2720	A1	2688
4	5772	10ms	17	544	7C	544
5	20000	10ms	59	1888	94	1856
6	11484	2ms	34	5440	CC	5440
6	11484	10ms	34	1088	88	1088
7	22996	2ms	68	10880	FE (octet 8) 16 (octet 17)	10800
7	22996	10ms	68	2176	55	2176

Table 169: Test QoS in E-DCH test cases (Rel-6 or later)

NOTE 1: Refer to 3GPP TS 25.306 [16a]

NOTE 2: The maximum number of MAC-d PDUs in a single MAC-e PDU containing a single MAC-es PDU is calculated with the formula:

- Max number MAC-d PDU = DIV ((MAX TB size - Length of MAC-e/es fixed header (DDI+N+TSN)), MAC-d PDU size)

Example of calculation for category 1: Max number MAC-d PDU = DIV((7110 - 18), (320+16)) = 21

8.11 DCH-DSCH Configurations

1. Configure PDSCH physical channel

```
CPHY_RL_Setup_REQ(
    physicalChannelIdentity,
    pDSCHInfo)
```

-- set up the scrambling code and transmission power level for the PDSCH identified by PhysicalChannelIdentity, and establishes the mapping between the spreading factor(and channelization codes) used for the PDSCH and TFCI(field2) transmitted in associated PDCH

2. Configure DSCH transport channels

```
CPHY_TrCH_Config_REQ(
    physicalChannelIdentity,
    dlconnectedTrCHList,
    dlTFCS)
```

-- set up TFS for each of DSCH's carried by the PDSCH defined in step 1 and TFCS (will be presented in TFCI(field2) of PDCH configured in step 5) for the CCTrCH consisting of these DSCH's

3. Configure MAC entity for DSCH

```
CMAC_Config_REQ(
    physicalChannelIdentity,
    uE_Info,
    dlconnectedTrCHList,
    dlTFCS)
```

-- set up TFS, DSCH-RNTI and TFCS (which will be presented in TFCI(field2) of PDCH configured in step 5) for DSCH's, and map logical channel to DSCH transport channel

4. Configure RLC entity for DTCHs

5. Configure DPCH physical channel

```
CPHY_RL_Setup_REQ(
    physicalChannelIdentity,
    dPCHInfo)
```

6. Configure DCH transport channels

7. Configure MAC entity for DCH

8. Configure RLC for DTCH, DCCH

8.11a DCH with HS-DSCH Configurations (Rel-5 or later)

1. Configure DPCH physical channel

2. Configure DCH transport channels

```
CPHY_TrCH_Config_REQ(
    physicalChannelIdentity,
    dlconnectedTrCHList,
    dlTFCS)
-- set up TFS for each DCH carried by the DPCH defined in step 5 and TFCS for the CCTrCH consisting of all DCH's mapped on the DPCH.
```

3. Configure MAC entity for DCH

4. Configure RLC for DCCH

```
CRLC_Config_REQ(
    rB_Identity,
    rBInfo)
-- set up RLC entity on top of DCCH logical channels which are mapped onto DCH
```

5. Configure HS-PDSCH physical channel

```
hSDSCHPhysicalLayerCategory HSDSCH_physical_layer_category,
hsdsch_physical_layer_category_ext HSDSCH_physical_layer_category_ext,
-- needed when MAC-ehs is configured
h_RNTI H_RNTI, dlHSPDSCHInformation

DL_HSPDSCH_Information,
ackNackRepetitionFactor ACK_NACK_repetitionFactor,
sttd_Indicator BOOLEAN,
hs_SCCH_TxPower DL_TxPower,
mimo_Parameters MIMO_Parameters
-- optionally present when MIMO is configured.
```

6. Configure HS-DSCH transport channels

6.a Associated with MAC-hs

6.b Associated with MAC-ehs [Rel-7 or later]

7. Configure MAC-hs/MAC-ehs entity for HS-DSCH

```
{\tt CMAC\_MAChs\_MACehs\_TFRCconfigure\_REQ(}
        explicit TRFC config mode with:
            modulationScheme,
            channelisationCodeOffset,
            noOfChannelisatonCodes.
            tbSizeIndexOnHS SCCH,
            minimumInterTTIinterval,
            redundancyVersion,
            hs_PDSCH_TxPower)
Or if MIMO is configured :
        explicit MIMMO mode [ if MIMO is configured] with:
            modulationSchemeAndNumTB,
            channelisationCodeOffset,
            noOfChannelisatonCodes,
            precodingWeight2,
            primaryTB SizeIndexOnHS SCCH,
            secondaryTB SizeIndexOnHS SCCH,
                --present only if second TB is to be tx as per modulationSchemeAndNumTB
            minimumInterTTIinterval ,
            primaryRedundancyVersions,
            secondaryRedundancyVersions,
                 --present only if second TB is to be tx as per modulationSchemeAndNumTB
            hs PDSCH TxPower
```

7.a MAC-hs

- -- for each MAChsQueue the configurable parameters are: machsQueueId; priority; mac_hsPduSizeInfoList; reorderingReleaseTimer, discardTimer and the MAC-dFlow identity to which this MAChsQueue belongs.
- this MAChsqueue belongs.
 -- set up the mapping between each MAC_d flow and the logical channels which mapped on the flow.
- -- MAC-hs entity is created per cell. In case of Intra Node B Handover this entity at the UE will not be reset whereas in the TTCN it will be released in the first cell and setup in the second cell. As no data is sent on HS-DSCH, this implementation will not affect the signalling, as signalling is transmitted through the associated DPCH channel.
- -- mimoStatus is set to TRUE if MIMO is configured.

7.b MAC-ehs [Rel-7 or later]

8. Configure RLC entity for DTCHs which is mapped on HS-DSCH

```
CRLC_Config_REQ(
    rB_Identity,
    rBInfo)
-- set up RLC entity on top of DTCH logical channel which is mapped onto MAC_d/MAC-ehs flow
```

9. MAC-hs/MAC-ehs reset, release of SS resources for HSDPA

```
MAC-hs/MAC-ehs reset:
       CMAC MAChs_MACehs_Reset_REQ(
            cellId)
   RL release:
       CPHY RL Release REQ(
            cellId, phyChId)
-- phyChid is the identity of HS-PDSCH physical channel or the associated DPCH channel
-- the HS-SCCH physical channel shall be also released when HS-PDSCH is released
-- the HS-DPCCH physical channel shall be released when the associated DPCH is released
   TrCH release:
        CPHY TrCH Release REQ(
           cellId, phyChId)
-- phyChid is the identity of HS-PDSCH physical channel
   MAC-hs/MAC-ehs release:
        CMAC_Config_REQ(
           cellId, phyChId)
-- phyChid is the identity of HS-PDSCH physical channel
   RLC release:
       CRLC_Config_REQ(
            cellId, rbId)
-- rbid is the identity of the radio bearer providing HSDPA service
```

8.11aa HS-DSCH Configurations without DCH associated (Rel-6 or later)

1. Configure F-DPCH physical channel

2. Configure HS-PDSCH physical channel

```
CPHY RL Setup REQ(
        physicalChannelIdentity,
        hs_PDSCHInfo (r5 or r6 or r7[dedicated]))
-- set up the HS-PDSCH identified by PhysicalChannelIdentity
-- for the HS-PDSCH the configurable parameters are: the scrambling code, and
-- set up the HS-SCCH which is associated with the HS-PDSCH without physicalChannelIdentity
-- for the HS-SCCH the configurable parameters are: channelisation code set and H-RNTI
        hSDSCHPhysicalLayerCategory HSDSCH_physical_layer_category, hsdsch_physical_layer_category_ext HSDSCH_physical_layer_category_ext,
        -- needed when MAC-ehs is configured
                                         H_RNTI,
        h RNTT
        dlHSPDSCHInformation
                                         DL HSPDSCH Information,
        ackNackRepetitionFactor
                                      ACK NACK repetitionFactor,
        sttd Indicator
                                          BOOLEAN,
                                         DL__TxPower,
        hs SCCH TxPower
        hs_scch_LessInfo
                                         HS_SCCH_LessInfo_r7
        -- if hs-scen -- in UL as well.
           if hs-scch less operation[Rel-7] is enabled. Conditional to no DCH configured
                                          MIMO Parameters r7
        mimo Parameters
        -- optionally present when MIMO is configured.
        -- mimo and HS-SCCH cannot be simultaneously configured.
```

6. Configure HS-DSCH transport channels

6.a Associated with MAC-hs

6.b Associated with MAC-ehs [Rel-7 or later]

7. Configure MAC-hs/MAC-ehs entity for HS-DSCH

If HS-SCCH less operation is not used:

```
{\tt CMAC\_MAChs\_MACehs\_TFRCconfigure\_REQ(}
        explicit TRFC config mode with:
            modulationScheme,
            channelisationCodeOffset,
            noOfChannelisatonCodes,
            tbSizeIndexOnHS SCCH,
            minimumInterTTIinterval,
            redundancyVersion,
            hs_PDSCH_TxPower)
Or if MIMO is configured :
        explicit MIMMO mode [if MIMO is configured] with:
            modulationSchemeAndNumTB,
            channelisationCodeOffset,
            noOfChannelisatonCodes,
            precodingWeight2,
            primaryTB SizeIndexOnHS SCCH,
            secondaryTB_SizeIndexOnHS_SCCH,
```

```
--present only if second TB is to be tx as per modulationSchemeAndNumTB minimumInterTTIinterval , primaryRedundancyVersions, secondaryRedundancyVersions, --present only if second TB is to be tx as per modulationSchemeAndNumTB hs PDSCH TxPower
```

If HS-SCCH less operation is used [Rel-7 or later]:

```
CMAC_MAChs_MAC-ehs_TFRCconfigure_REQ(
hs_scch_LessInfo mode with:
    modulationScheme,
    channelisationCodeOffset,
    noOfChannelisatonCodes,
    tbSizeIndexOnHS_SCCH,
    minimumInterTTIInterval,
    redundancyVersion,
    hs_PDSCH_TxPower)
```

7.a MAC-hs

```
CMAC_Config_REQ(
   physicalChannelIdentity,
   uE_Info,
   hsDSCHMacdFlows)
```

- -- the hsDSCHMacdFlows shall be same as that used in CPHY TrCH Config REQ.
- -- set up MAC_d flows identified by Mac_dFlowId in the hsDSCHMacdFlows.
- -- for each MAC_d flow the number of process queues of the MAC-d flow and their queue identities are configurable;
- -- for each MAChsQueue the configurable parameters are: machsQueueId; priority; mac_hsPduSizeInfoList; reorderingReleaseTimer, discardTimer and the MAC-dFlow identity to which this MAChsQueue belongs.
- -- set up the mapping between each MAC_d flow and the logical channels which mapped on the flow.
 -- MAC-hs entity is created per cell. In case of Intra Node B Handover this entity at the UE will
- not be reset whereas in the TTCN it will be released in the first cell and setup in the second cell. As no data is sent on HS-DSCH, this implementation will not affect the signalling, as signalling is transmitted through the associated DPCH channel.
- -- mimoStatus is set to TRUE if MIMO is configured.

7.b MAC-ehs [Rel-7 or later]

8. Configure RLC entity for DTCHs and/or DCCHs (if not already configured) which is mapped on HS-DSCH

```
CRLC_Config_REQ(
    rB_Identity,
    rBInfo)
-- set up RLC entity on top of DTCH/DCCH logical channel which is mapped onto MAC-d/mac-ehsQueue
```

9. MAC-hs/MAC-ehs reset, release of SS resources for HSDPA

```
TrCH release:

CPHY_TrCH_Release_REQ(
cellId, phyChId)

-- phyChid is the identity of HS-PDSCH physical channel

MAC-hs/MAC-ehs release:
CMAC_Config_REQ(
cellId, phyChId)

-- phyChid is the identity of HS-PDSCH physical channel

RLC release:
CRLC_Config_REQ(
cellId, rbId)

-- rbid is the identity of the radio bearer providing HSDPA service
```

8.11b HS-DSCH Configuration Verification

In most HSDPA test cases although the HSDPA channels (HS-SCCH, HS-PDSCH, HS-DSCH & HS-DPCCH) are set up and reconfigured using RRC peer messages, no data is sent on HS-DSCH and all the signalling is transmitted through the associated DPCH physical channel.

In order to ensure that the HS-DPCCH channel has been configured, the SS shall, upon request, forward one CQI report to the TTCN.

8.11c HS-DSCH Configurations for enhanced Cell FACH (Rel-7 or later) [Mapping CCCH/BCCH/PCCH on HS-DSCH]

1. Configure HS-PDSCH physical channel

```
CPHY_RL_Setup_REQ(
       physicalChannelIdentity,
        Common_HS_PDSCH_Info)
-- set up the HS-PDSCH identified by PhysicalChannelIdentity
-- for the HS-PDSCH the configurable parameters are: the scrambling code, and
   set up the HS-SCCH which is associated with the HS-PDSCH without physicalChannelIdentity
-- for the HS-SCCH the configurable parameters are: channelisation code set and common/dedicated H-
RNTI selected by/allocated to UE
        hSDSCHPhysicalLayerCategory
                                       HSDSCH_physical_layer_category,
       hs DSCH 64QAM Support
                                       BOOLEAN,
        -- needed only if 64QAM[Rel-7] is supported [Cat 13 and 14]
       commonOrDedicated_H_RNTI
                                       H RNTI,
       bcchSpecific_H_RNTI
                                      H_RNTI,
       hs scch SystemInfo
                                       HS SCCH SystemInfo,
       hs dsch PagingSystemInformation HS DSCH PagingSystemInformation,
        sttd Indicator BOOLEAN,
       hs SCCH TxPower
                                       DL TxPower
                                                       -- offset related to CPICH
       hs scch LessInfo
                                       HS SCCH LessInfo r7
        -- if hs-scch less operation[Rel-7] is enabled. Conditional to no DCH configured
        in UL as well.
       mimo_Parameters
                                       MIMO_Parameters
        -- optionally present when MIMO is configured.
        -- mimo and HS-SCCH cannot be simultaneously configured.
```

6. Configure HS-DSCH transport channels

7. Configure MAC-hs/MAC-ehs entity for HS-DSCH

```
CMAC_MAChs_MACehs_TFRCconfigure_REQ(
   explicit TRFC config mode with:
       hs pdsch CodeIndex,
```

```
hs_scch_LessTFI,
hs_scch_LessSecondCodeApplicability,
hs_PDSCH_TxPower)

CMAC_Config_REQ(
physicalChannelIdentity,
uE_Info,
ehs_DSCH_CommonFlows)

-- the ehs_DSCH_CommonFlows shall be same as that used in CPHY_TrCH_Config_REQ.
-- set up ehs-DSCH flows identified by mac_ehs_QueueId in the hsDSCHMacdFlows.
-- set up the mapping between each ehs_DSCH_CommonFlows and the logical channels which are mapped on the flow.
-- MAC_ehs entity is created per cell. In case of Intra Node B Handover this entity at the UE will not be reset whereas in the TTCN it will be released in the first cell and setup in the second cell.
```

8.12 Pre- and 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 3GPP TS 34.108 [3], 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 3GPP TS 34.108 [3], clause 6.1.5, so that the UE will not re-select the UTRAN cell.

8.12.2 Postamble for GERAN to UTRAN tests

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 3GPP TS 51.010-1 [26], clause 60.

Expected sequence

Step	Direction	Message	Comments
Step	UE SS	Wessage	Comments
1	<	SECURITY MODE COMMAND	Integrity protection is activated.
			UTRAN security keys in CS
			domain derived from GERAN
2	>	SECURITY MODE COMPLETE	
3	<	UTRAN MOBILITY INFORMATION	RRC
4	>	UTRAN MOBILITY INFORMATION CONFIRM	RRC
5	>	ROUTING AREA UPDATE REQUEST	GMM - Update type = 'RA updating'. Not performed by CS only mobile.
5a	<	SECURITY MODE COMMAND	Integrity protection is activated. UTRAN security keys in PS domain derived from GERAN
5b	>	SECURITY MODE COMPLETE	
6	<	ROUTING AREA UPDATE ACCEPT	GMM - P-TMSI is included
7	>	ROUTING AREA UPDATE COMPLETE	
8			The call is terminated. SS
			releases the RRC connection.
9	>	RRC CONNECTION REQUEST	RRC - establishment cause = 'registration'
10	<	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 perform a normal LAU
13	<	SECURITY MODE COMMAND	Integrity protection is activated.
14	>	SECURITY MODE COMPLETE	
15	<	ROUTING AREA UPDATE ACCEPT	P-TMSI is included
16	>	ROUTING AREA UPDATE COMPLETE	
17			The SS releases the RRC connection.
18			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	Value/remark
CN information info	
- PLMN identity	Not present
- CN domain related information	
- CN domain identity	PS
- CN domain specific NAS system information	
- GSM-MAP NAS system information	00 00H
- CN domain specific DRX cycle length coefficient	7

SECURITY MODE COMMAND message:

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

Information Element	Value/remark		
Ciphering mode info	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 3GPP TS 51.010-1 [26], clause 42.4.7.

Expected sequence

Step	Dire	ction	Maccaga	Comments
Step	UE	SS	- Message	Comments
1	1 -		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.
2	2 <		SECURITY MODE COMMAND	Integrity protection is activated, UTRAN security keys in PS domain derived from GERAN
3		·>	SECURITY MODE COMPLETE	
4	<		ROUTING AREA UPDATE ACCEPT	GMM - P-TMSI is included
5	5>		ROUTING AREA UPDATE COMPLETE	
				SS releases the RRC connection UE is powered OFF.

8.12.2.3 GERAN to UTRAN DTM test cases

These test cases are defined in 3GPP TS 51.010-1 [26], clauses 41.5.1.1.1.4 and 47.3.4.

Expected sequence

Step	Direction UE SS	- Message	Comments
			The SS releases the RR
			connection
1	>	RRC CONNECTION REQUEST	RRC - establishment cause =
			'registration'
2	<	RRC CONNECTION SETUP	RRC
3	>	RRC CONNECTION SETUP COMPLETE	RRC
A4	>	ROUTING AREA UPDATE REQUEST	UE behaviour type A, if the UE
			is still attached:
			GMM - Update type =
			'Combined RA / LA updating' or
			combined RA/LA updating with
			ISMI Attach
A5	<	SECURITY MODE COMMAND	Integrity protection is activated,
			UTRAN security keys in PS
			domain derived from GERAN
A6	>	SECURITY MODE COMPLETE	
A7	<	ROUTING AREA UPDATE ACCEPT	GMM - P-TMSI is included
A8	>	ROUTING AREA UPDATE COMPLETE	
B4	>	LOCATION UPDATING REQUEST	UE behaviour type B, if the UE
			has already detached
B5		AUTHENTICATION REQUEST	
B6		AUTHENTICATION RESPONSE	
B7	<	SECURITY MODE COMMAND	Integrity protection is activated,
			UTRAN security keys in CS
			domain derived from GERAN
B8	>	SECURITY MODE COMPLETE	
B8a	<	LOCATION UPDATING ACCEPT	
B8b	>	TMSI REALLOCATION COMPLETE	
9			SS releases the RRC
			connection
10			UE is powered OFF.

8.13 E-DCH configurations (Rel-6 or later)

8.13.1 DPCH (SRB) and E-DCH (RAB) configuration

8.13.1.1 Serving E-DCH cell

1. Configure DPCH physical channel

```
CPHY_RL_Setup_REQ
(
    cellId_1
    physicalChannelIdentity,
    dPCHInfo_r5OrLater
        r6 (
            ul_DPCH_Info6
        )
)
-- set up the UL-DPCH channel. When UL-DPCH is established, E-DPCH shall use the same scrambling code.
```

2. Configure DCH transport channels

```
CPHY TrCH Config REQ(
       cellId 1
       physicalChannelIdentity,
       ulconnectedTrCHList,
       ulTFCS)
-- set up TFS for each DCH carried by the DPCH defined in step 5 and TFCS for the CCTrCH consisting
of all DCH's mapped on the DPCH.
```

3. Configure MAC entity for DCH

```
CMAC Config REQ(
        physicalChannelIdentity,
        ulconnectedTrCHList,
-- set up TFS and TFCS for DCH's, and map logical channel to DCH transport channel.
uE Info
```

```
4. Configure RLC for DCCH
    CRLC Config REQ(
        rB Identity,
        rBInfo)
-- set up RLC entity on top of DCCH logical channels which are mapped onto DCH
5. Configure E-DCH DL physical channel CPHY RL Setup REQ
        physicalChannelIdentity,
        e_AGCHInfo
            e AGCHInfo
            tti
            e AGCH PowerOffset
   )
-- set up the E-AGCH identified by PhysicalChannelIdentity
-- E-AGCH channel is configured only in the serving E-DCH cell
-- for E-AGCH the configurable parameters are
                              E_AGCH_Information
        e_AGCHInfo
        e_AGCH_PowerOffset
                                INTEGER (0..255)
        e_RNTI_Primary
                                E_RNTI
                               E_RNTI
        e RNTI Secondary
-- The tti value shall be the same as the associated E-DPCH
    CPHY RL Setup REQ
        physicalChannelIdentity,
        e_HICHInfo
            e HICHInfo
            tti
            e HICH PowerOffset
        )
-- set up the E-HICH identified by PhysicalChannelIdentity
-- for {\hbox{\footnotesize E-HICH}} the configurable parameters are
                               E HICH Information
        e HICHInfo
        e_HICH_PowerOffset
                                INTEGER (0..255)
-- The tti value shall be the same as the associated E-DPCH
-- As E-HICH is having timing dependencies with DPCH, it is configured last
    CPHY_RL_Setup_REQ
        physicalChannelIdentity,
        e_RGCHInfo
            e RGCHInfo
            e RGCH PowerOffset
   )
-- set up the E-RGCH identified by PhysicalChannelIdentity
-- for E-RGCH the configurable parameters are
                               E_RGCH_Information
INTEGER (0..255)
        e_RGCHInfo
        e RGCH PowerOffset
-- The tti value shall be the same as the associated E-DPCH
```

```
6. Configure E-DCH UL physical channel
    CPHY RL_Setup_REQ
        physicalChannelIdentity
        e DPCHInfo
            (
                e_DPCCH_Info
e_DPDCH_Info
                scramblingCodeType
                scramblingCode
                tti
                edch_PhysicalLayerCategory
            )
   )
-- set up the E-DCH identified by PhysicalChannelIdentity
-- for \bar{\text{E-DPCH}} the configurable parameters are
        e_DPCCH_Info
                                         E DPCCH Info
        e DPDCH Info
                                         E DPDCH Info
                                         E DCH TTI
        tti
        edch PhysicalLayerCategory
                                         INTEGER (1..16)
-- The scramblingCodeType and scramblingCode shall be the same as for Ul-DPCH
7. Configure E-DCH UL transport channels
    CPHY TrCH Config REQ
        physicalChannelIdentity,
        e DCHMacdFlows )
-- set up the E-DCH transport channel which carries one or multiple MAC_d flows, one Mac_d flow is
defined as
    {
                                     E DCH TTI
        tti
                                     ENUMERATED { rv0 (0) }
        harqInfo
        addReconf_MAC_d_Flow
                                     E_DCH_AddReconf_MAC_d_Flow
-- the tti parameter is the same for all {\tt Mac\_d} flows
-- each Mac_d flow is identified by mac-d-FlowIdentity defined in the addReconf_MAC_d_Flow
-- for each MAC d flow the configurable parameters are: mac-d-FlowPowerOffset, mac-d-FlowMaxRetrans,
mac-d-FlowMultiplexingList, transmissionGrantType
```

8. Mapping E-DCH cells in Node B

9. Configure MAC_e entity for E-DCH

```
CMAC MACe Config REQ
    (
       nodeB_Id
       ddiMappinglist
        e DCHMacdFlows
       connectedToMAC es
   )
-- MAC_e entity is created per Node-B
-- the e_DCHMacdFlows shall be same as that used in CPHY_TrCH_Config_REQ
-- the field connectedToMAC es shall be set to TRUE in serving E-DCH cell
-- the field connectedToMAC es shall be set to FALSE in inter nodeB SHO
-- ddiMappinglist is defined as
           activationTime
                                            SS ActivationTime
                                           MAC_HeaderManipulation
           macHeaderManipulation
           logicalChannelIdentity
                                           LogicalChannelIdentity
           e_DCH_MAC_d_FlowIdentity
                                            E_DCH_MAC_d_FlowIdentity
           ddi
                                           DDI
           rlc PDU SizeList
                                           RLC PDU SizeList
           mac LogicalChannelPriority
                                           MAC LogicalChannelPriority
           logicalChannelType
                                           LogicalChannelType
```

10. Configure MAC_es entity for E-DCH

11. Configure RLC entity for DTCHs which is mapped on E-DCH

8.13.1.2 SHO - addition of E-DCH RL in a serving RL cell (intra node B)

1. Configure E-DCH physical channel

```
-- E-DPCH is not configured: the cell is under the control of the same nodeB as the initial RL.
-- E-AGCH channel is not configured, it is configured only in the serving E-DCH cell
    CPHY RL Setup REQ
        physicalChannelIdentity,
        e HICHInfo
            e HICHInfo
            tti
            e HICH PowerOffset
    }
-- set up the E-HICH identified by PhysicalChannelIdentity
  for E-HICH the configurable parameters are
                               E_HICH_Information
        e HICHInfo
        e HICH PowerOffset
                                INTEGER (0..255)
-- The tti value shall be the same as the associated E-DPCH in the serving E-DCH cell
    CPHY RL Setup REQ
        physicalChannelIdentity,
        e RGCHInfo
            e RGCHInfo
            tti
            e_RGCH_PowerOffset
-- set up the E-RGCH identified by PhysicalChannelIdentity
-- for E\text{-RGCH} the configurable parameters are
        e RGCHInfo
                               E_RGCH_Information
        e RGCH PowerOffset
                                INTEGER (0..255)
The tti value shall be the same as the associated E-DPCH in the serving E-DCH cell
```

2. Mapping E-DCH cells in Node B

```
CMAC_MACe_NodeB_CellMapping_REQ
{
    nodeB_Id
    celllist
}
-- set-up the mapping between NodeB-Id and the new E-DCH cell in celllist
```

8.13.1.3 SHO – addition of E-DCH RL in a non-serving RL cell (inter node B)

1. Configure E-DCH DL physical channel

```
CPHY RL Setup REQ
        physicalChannelIdentity,
        e_HICHInfo
            e HICHInfo
            tti
            e_HICH_PowerOffset
   }
-- set up the E-HICH identified by PhysicalChannelIdentity
-- for E-HICH the configurable parameters are
                               E HICH Information
        e HICHInfo
        e_HICH_PowerOffset
                               -- The {\sf tt\bar{i}} value shall be the same as the associated E-DPCH in the serving E-DCH cell
   CPHY RL Setup REQ
        physicalChannelIdentity,
        e RGCHInfo
            e RGCHInfo
           tti
            e_RGCH_PowerOffset
   )
-- set up the E-RGCH identified by PhysicalChannelIdentity
-- for \bar{\text{E-RGCH}} the configurable parameters are
        e RGCHInfo
                               E RGCH Information
        e RGCH PowerOffset
                               INTEGER (0..255)
-- The tti value shall be the same as the associated E-DPCH in the serving E-DCH cell
```

2. Configure E-DCH UL physical channel

```
CPHY_RL_Setup_REQ
        physicalChannelIdentity,
        e DPCHInfo
                e DPCCH Info
                e DPDCH Info
                scramblingCodeType
                scramblingCode
                edch_PhysicalLayerCategory
-- set up the E-DCH identified by PhysicalChannelIdentity, the same as in the serving E-DCh cell
-- for E-DPCH the configurable parameters are
        e DPCCH Info
                                       E DPCCH Info.
                                        E_DPDCH_Info,
        e_DPDCH_Info
        edch_PhysicalLayerCategory
                                       INTEGER (1..16)
-- The scramblingCodeType and scramblingCode shall be the same as for Ul-DPCH
-- The tti value shall be the same as the E-DPCH in the serving E-DCH cell
-- for E-DPCH, the scramblingCodeType and scramblingCode shall be the same as for Ul_DPCH
-- E-AGCH channel is not configured
```

3. Configure E-DCH transport channels

4. Configure MAC_e entity for E-DCH

5. Mapping E-DCH cells in Node B

8.13.2 DPCH/HS-DSCH/E-DCH setup and release order

When setting up an HSUPA RAB, the following order of channel configuration is applied:

```
DL-DPCH, HS-DSCH, UL-DPCH, E-DCH.
```

When releasing an HSUPA RAB, the following order of channel release/ modification is applied:

E-DCH, HS-DSCH, UL-DPCH, DL-DPCH.

8.13.3 Serving E-DCH cell with UL DTX Configured [Rel-7]

UL-DRX is always configured when UL-DTX is started.

1. Configure DPCH physical channel

2. Continue with steps 5 through 11 in clause 8.13.1.1 except for Rel-7 branches if available.

If DL_DRX is enabled IE "ss_DTX_Info" shall be provided in E_AGCH/E_RGCH/HS_PDSCH configuration.

If DL_DRX is enabled IE "ss_DTX_Info" shall be provided in:

- CMAC_MAChs_MACehs_TFRCconfigure_REQ when configuring HS_PDSCH.

For F-DPCH configuration "ss_DTX_Info" shall be provided.

3. Configure MAC_e entity for E-DCH

```
CMAC MACe Config REQ
```

```
nodeB Id
       ddiMappinglist
        e DCHMacdFlows
        connectedToMAC es
        ss DRX MAC Info
            mac_InactivityThreshold,
            mac_dtx_Cycle_2ms,
            mac_dtx_Cycle_10ms,
            timingInfo
-- MAC e entity is created per Node-B
-- the e DCHMacdFlows shall be same as that used in CPHY TrCH Config REQ
-- the field connectedToMAC_es shall be set to TRUE in serving E-DCH cell
-- the field connectedToMAC es shall be set to FALSE in inter nodeB SHO
-- ddiMappinglist is defined as
            activationTime
                                             SS ActivationTime
            macHeaderManipulation
                                             MAC HeaderManipulation
            logicalChannelIdentity
                                             LogicalChannelIdentity
            {\tt e\_DCH\_MAC\_d\_FlowIdentity}
                                             E_DCH_MAC_d_FlowIdentity
            ddi
            rlc PDU SizeList
                                             RLC PDU SizeList
            mac LogicalChannelPriority
                                            MAC LogicalChannelPriority
            logicalChannelType
                                             LogicalChannelType
```

8.14 Guidelines of MBMS implementations

8.14.1 MCCH scheduling implementation

The rules for the transmission of MCCH messages are specified in 3GPP TS 34.108 [3], clause 11.1.2. The current clause provides the implementation guidelines.

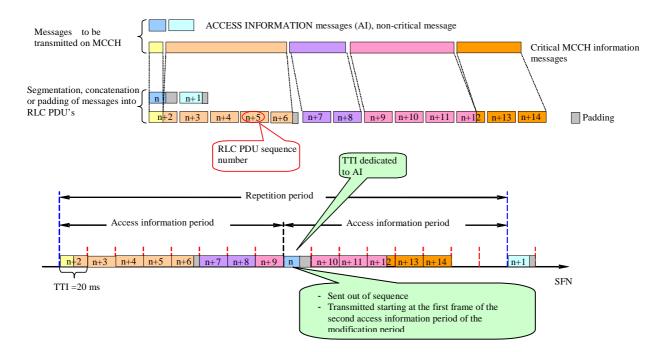


Figure 28: Segmentation and concatenation of MCCH messages into RLC PDU's

If required in the test, all ACCESS INFORMATION messages of a modification period are sent via RLC_UM_ACCESSinfo_REQ. Each ACCESS INFORMATION message corresponds to an access information period in an ordered way. The ACCESS INFORMATION is transmitted on the 1st TTI of the second access information period of the modification period.

All critical MCCH messages of a modification period are sent via RLC_UM_CriticalMCCHMsg_REQ. The sequence of the critical MCCH messages is segmented and concatenated without padding by a UM RLC entity configured specifically for MCCH. RLC_UM_ACCESSinfo_REQ precedes RLC_UM_CriticalMCCHMsg_REQ, or RLC_UM_CriticalMCCHMsg_REQ can be used alone. The scenarios of RLC_UM_ACCESSinfo_REQ used alone or RLC_UM_CriticalMCCHMsg_REQ preceding RLC_UM_ACCESSinfo_REQ are not applied.

The first RLC SN are always allocated consecutively to ACCESS INFORMATION messages, i.e. from n+0 onwards as necessary. Then an RLC SN block is consecutively allocated to the critical MCCH messages, saying the last used SN = (n+m)MOD 128 in the current modification period. Renew n to (n+m+1)MOD 128 for the next modification period.

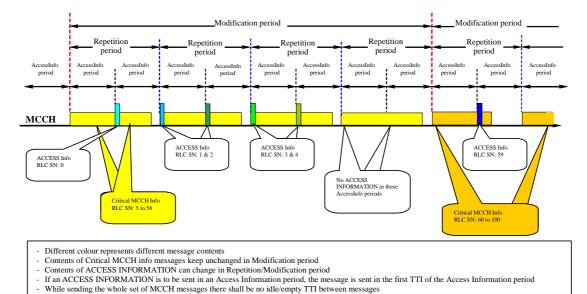


Figure 29: RLC SN allocation in MCCH scheduling

ACCESS INFORMATION messages within a modification period have different RLC SN. The SN = n + 0 is allocated to the 1^{st} ACCESS INFORMATION message. The critical MCCH messages to be transmitted in the different repetition periods within a modification period have the same RLC SN. RLC SN are incremented across the boundary of two consecutive modification periods without RLC reestablishment. The different RLC SN are allocated to the two consecutive modification periods.

In order to ensure UE can read the first ACCESS INFORMATION message, the message is sent by the TTCN in the second access information period.

8.14.2 MSCH scheduling and service data on MTCH

Multiple ordered SCHEDULING INFORMATION messages are sent by using RLC_UM_MSCH_Msg_REQ. Each SCHEDULING INFORMATION corresponds to a scheduling period, a 'noSend' MSCH_Message indicates that no MBMS services are scheduled in that scheduling period for all MTCH. The first SCHEDULING INFORMATION message is sent on the scheduledSFN and successively the remaining messages are sent in every scheduling period.

The MBMS service data are fed by RLC_UM_TestDataReq. However the real MBMS service transmissions for multiple scheduling periods on each MTCH are controlled by CRLC_MTCH_Scheduling_REQ. Within each scheduling period the information on the discontinuous service transmissions are conveyed through a list of pairs of (start, duration). The IE noServiceData as NULL being provided for a scheduling period indicates no service transmission on that MTCH.

The simulation of the continuous MBMS services is provided if an empty CRLC_MTCH_Scheduling_REQ is sent without scheduling configuration parameter and scheduling information.

RLC_UM_MSCH_Msg_REQ precedes CRLC_MTCH_Scheduling_REQ and RLC_UM_TestDataReq.

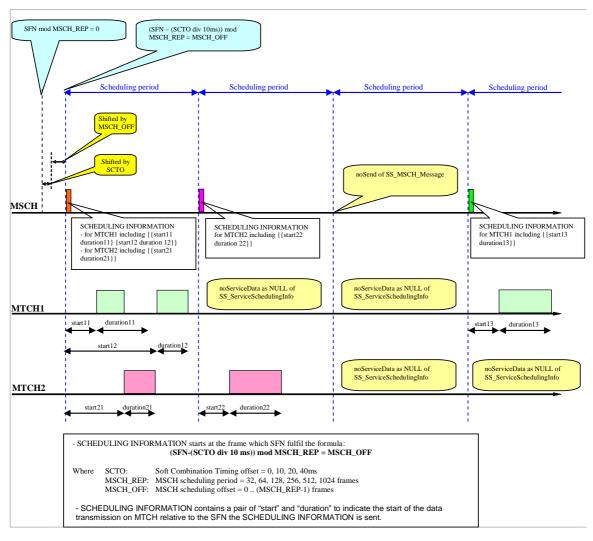


Figure 30: MSCH scheduling and MTCH data transfer

8.14.2.1 Scheduled service data on MTCH without MSCH configured

The scheduled service is a mechanism for synchronization of the initialization of the MBMS services announced on MCCH and the start of transmission the service data on MTCH. The mechanism can also be used at the SS side when MSCH is not configured.

In a PTM test session two separate sequences of critical MCCH messages are transmitted in an order of C4 - C2 or C5 - C3 in two consecutive modification periods. The MBMS MODIFIED SERVICES INFORMATION message in C4/C5 generally does not contain MBMS p-t-m activation time for the UE immediate reception of MBMS services. However, the SS shall not start test data transmission until on the 1st TTI of the next modification period to ensure that the UE can have a nearly full modification period to obtain critical MCCH messages and to apply the configuration required by the test.

The Figure 31 illustrates the relationship of the service scheduling on MTCH and the default1 MCCH information scheduling. The SS waits until the 2nd half of the last repetition period in the modification period when the C4 messages are sent before closing test loop. The test data are transmitted on the 1st TTI of the modification period when the C2 messages are sent. The whole test sequence is:

CPHY_SFN_REQ, calculating next MICH CFN,

MP n: next MICH CFN set MICH and transmit NI,

MP n+1: next MICH CFN+1 mp set modified services list (C4 or C5), set PTM activation time if necessary,

MP n+2: next MICH CFN+2 mp set unmodified service list and transmit data (C2 or C3).

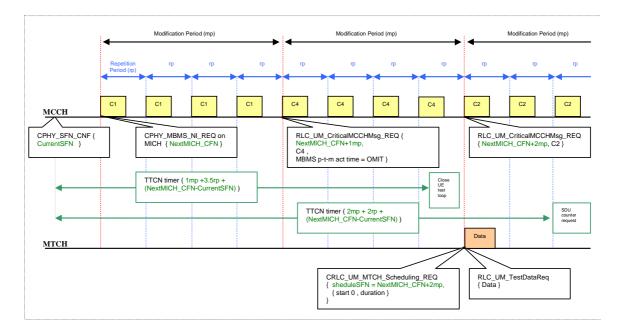


Figure 31: Synchronized MTCH data sending, no MSCH configured

If the test loop is already closed and the service data is to be sent the ASPs follow the order:

CPHY_SFN_REQ, CRLC_MTCH_Scheduling_REQ and RLC_UM_TestDataReq.

8.15 Cell mapping

The following table defines the cell identities mapping between 3GPP TS 34.108 [3] and the ATS implementation.

Cell Number in 34.108 ATS Not Used

Table 170: Cell identities mapping

Annex A (normative): Abstract Test Suites (ATS)

This annex contains the approved ATSs.

The ATSs have been produced using the Tree and Tabular Combined Notation (TTCN) according to TR 101 666 [27].

The ATSs were developed on a separate TTCN software tool and therefore the TTCN tables are not completely referenced in the table of contents. Each ATS contains a test suite overview part which provides additional information and references.

A.1 Version of specifications

Table A.1 shows the version of the test specifications which the delivered ATSs are referred to.

Table A.1: Versions of the test and Core specifications

Core specifications	3GPP TS 25.331 [21] (V780)
Test specifications	3GPP TS 34.123-1 [1] (V8.3.0)
	3GPP TS 34.123-2 [2] (V8.3.0)
	3GPP TS 34.108 [3] (V8.3.0)
	3GPP TS 34.109 [4] (V7.2.0)

A.2 NAS ATS

The approved NAS test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.2: NAS TTCN test cases

Test case	Description	FDD	LCR TDD
	MM		
9.1	TMSI reallocation	Χ	Χ
9.2.1	Authentication accepted	Χ	Χ
9.2.2	Authentication rejected	Χ	
9.2.3	Authentication rejected by the UE (MAC code failure)	Х	
9.2.4	Authentication rejected by the UE (SQN failure)	Х	
9.3.1	General Identification	X	Х
9.4.1	Location updating / accepted	X	
9.4.2.1	Location updating / rejected / IMSI invalid	X	
9.4.2.2.1	Location updating / rejected / PLMN not allowed/Test 1	X	
9.4.2.2.1	Location updating / rejected / PLMN not allowed / Test 1 Location updating / rejected / PLMN not allowed / Test 2	X	
		X	
9.4.2.3	Location updating / rejected / location area not allowed		
9.4.2.4.1	Location updating / rejected / roaming not allowed in this location area / Procedure 1	X	
9.4.2.4.2	Location updating / rejected / roaming not allowed in this location area / Procedure 2	Χ	
9.4.2.4.4	Location updating / rejected / roaming not allowed in this location area / Procedure 4	Х	
9.4.2.5	Location updating / rejected / No Suitable Cells In Location Area	Χ	
9.4.3.3	Location updating / rejected / No Suitable Cens in Location Area Location updating / abnormal cases / attempt counter equal to 4	X	
9.4.3.5	Location updating / abnormal cases / attempt counter equal to 4 Location updating / abnormal cases / Failure due to non-integrity	X	
3.4.3.3	protection	^	
0.4.4		~	
9.4.4	Location updating / release / expiry of T3240	X	X
9.4.5.2	Location updating / periodic normal / test 1	X	
9.4.5.3	Location updating / periodic normal / test 2	X	
9.4.5.4.1	Location updating / periodic search for HPLMN or higher priority PLMN / UE waits time T	Х	
9.4.5.4.6	Location updating/periodic search of the higher priority PLMN, VPLMN in a foreign country- List of EPLMN contain HPLMN /UE is in automatic mode	Χ	
9.4.7	Location Updating / accept with replacement or deletion of Equivalent PLMN list	Х	
9.4.8	Location Updating after UE power off	Χ	
9.4.9	Location Updating / Accept, Interaction between Equivalent PLMNs and Forbidden PLMNs	X	
9.5.2	MM connection / establishment in security mode	Χ	Х
9.5.4	MM connection / establishment rejected	X	X
9.5.5	MM connection / establishment rejected cause 4	X	
9.5.7.1	MM connection / abortion by the network / cause #6	X	
9.5.7.2	MM connection / abortion by the network / cause not equal to #6	X	
9.5.7.2	CC	^	
40.4.0.4.4		V	V
10.1.2.1.1	Outgoing call / U0 null state / MM connection requested	X	X
10.1.2.2.1	Outgoing call / U0.1 MM connection pending / CM service rejected	X	X
10.1.2.2.2	Outgoing call / U0.1 MM connection pending / CM service accepted	X	X
10.1.2.2.3	Outgoing call / U0.1 MM connection pending / lower layer failure	X	X
10.1.2.3.1	Outgoing call / U1 call initiated / receiving CALL PROCEEDING	Χ	X
10.1.2.3.2	Outgoing call / U1 call initiated / rejecting with RELEASE COMPLETE	Χ	X
10.1.2.3.3	Outgoing call / U1 call initiated / T303 expiry	Χ	Χ
10.1.2.3.7	Outgoing call / U1 call initiated / unknown message received	Χ	Χ
10.1.2.4.3	Outgoing call / U3 Mobile originating call proceeding / PROGRESS received without in band information	Χ	Χ
10.1.2.4.4	Outgoing call / U3 Mobile originating call proceeding / PROGRESS with in band information	Х	Х
10.1.2.4.6	Outgoing call / U3 Mobile originating call proceeding / DISCONNECT without in band tones	Χ	Х
10.1.2.4.7	Outgoing call / U3 Mobile originating call proceeding / RELEASE received	Х	Х
10.1.2.4.8	Outgoing call / U3 Mobile originating call proceeding / termination requested by the user	Χ	Х
10.1.2.4.9	Outgoing call / U3 Mobile originating call proceeding / traffic channel allocation	Х	Х
10.1.2.4.10	Outgoing call / U3 Mobile originating call proceeding / timer T310 time-	Χ	Х
10.1.2. 4 .10	out	^	^

10.1.2.5.1	Outgoing call / U4 call delivered / CONNECT received	X	
10.1.2.5.2	Outgoing call / U4 call delivered / termination requested by the user	Χ	Χ
10.1.2.5.5	Outgoing call / U4 call delivered / RELEASE received	Χ	Χ
10.1.2.6.2	U10 active / RELEASE received	Χ	Χ
10.1.2.6.3	U10 active / DISCONNECT with in band tones	Χ	Χ
10.1.2.6.6	U10 active / SETUP received	Χ	Χ
10.1.2.7.1	U11 disconnect request / clear collision	Χ	Χ
10.1.2.7.2	U11 disconnect request / RELEASE received	Χ	Χ
10.1.2.7.3	U11 disconnect request / timer T305 time-out	Х	Х
10.1.2.9.1	Outgoing call / U19 release request / timer T308 time-out	Х	Х
10.1.3.3.1	Incoming call / U9 mobile terminating call confirmed / alerting or immediate connecting	Х	Х
10.1.3.3.2	Incoming call / U9 mobile terminating call confirmed / DTCH assignment	Х	Х
10.1.3.3.4	Incoming call / U9 mobile terminating call confirmed / DISCONNECT received	Х	Х
10.1.3.4.1	Incoming call / U7 call received / call accepted	Х	Х
10.1.3.5.6	Incoming call / U8 connect request / RELEASE received	X	X
10.1.3.3.0	Session Management		
11.1.1.1	Attach initiated by context activation/QoS Offered by Network is the	Х	Х
	QoS Requested		
11.3.1	PDP context deactivation initiated by the UE	Χ	X
11.3.2	PDP context deactivation initiated by the network	Χ	
	GPRS Mobility Management		
12.2.1.1	PS attach / accepted	Χ	Х
12.2.1.2	PS attach / rejected / IMSI invalid / illegal UE	Χ	
12.2.1.3	PS attach / rejected / IMSI invalid / PS services not allowed	Х	Х
12.2.1.4 Proc 1	PS attach / rejected / PLMN not allowed / test procedure 1	Х	
12.2.1.4 Proc 2	PS attach / rejected / PLMN not allowed / test procedure 2	Х	
	PS attach / rejected / roaming not allowed in this location area / test	Х	
12.2.1.5a Proc 1	procedure 1		
	PS attach / rejected / roaming not allowed in this location area / test	Χ	
12.2.1.5a Proc 2	procedure 2		
12.2.1.5b	PS attach / rejected / No Suitable Cells In Location Area	Χ	
12.2.1.5d	PS attach / rejected / PS services not allowed in this PLMN	Χ	
12.2.1.6 Proc 1	PS attach / abnormal cases / access barred due to access class control / tes procedure 1	Х	
12.2.1.6 Proc 2	PS attach / abnormal cases / access barred due to access class	Χ	
	control / test procedure 2		
12.2.1.7	PS attach / abnormal cases / change of cell into new routing area	Χ	Х
12.2.1.10	PS attach / abnormal cases / Failure due to non-integrity protection	X	
12.2.1.11	PS attach / accepted / follow-on request pending indicator set	X	
12.2.2.1	Combined PS attach / PS and non-PS attach accepted	X	Х
12.3.1.1	PS detach / power off / accepted	X	X
12.3.1.2	PS detach / accepted	X	X
12.3.1.5	PS detach / power off / accepted / PS/IMSI detach	X	X
12.3.2.1	PS detach / re-attach not required / accepted	X	X
12.3.2.7	PS detach / rejected / Roaming not allowed in this location area	X	- '`
12.3.2.8.Proc 1	PS detach / rejected / PS services not allowed in this PLMN/ test1	X	
12.4.1.1a	Routing area updating / accepted	X	
12.4.1.1b	Routing area updating / accepted / Signalling connection re-	X	Х
12 / 1 2	establishment Pouting area undating / rejected / IMSL invalid / illegal ME	V	
12.4.1.2	Routing area updating / rejected / IMSI invalid / illegal ME	X	
12.4.1.3	Routing area updating / rejected / UE identity cannot be derived by the network		
12.4.1.4a	Routing area updating / rejected / location area not allowed	Χ	
12.4.1.4b	Routing area updating / rejected / No Suitable Cells In Location Area	Χ	
12.4.1.4c Proc 1	Routing area updating / rejected / PS services not allowed in this PLMN	Χ	
12.4.1.4c Proc 2	Routing area updating / rejected / PS services not allowed in this PLMN	Х	
12.4.1.4d Proc 1	Routing area updating / rejected / Roaming not allowed in this location area / test 1	Х	
12.4.1.4d Proc 2	Routing area updating / rejected / Roaming not allowed in this location area / test 2	Х	
12.4.1.5	Routing area updating / abnormal cases / attempt counter check /	Χ	

	miscellaneous reject causes		
12.4.2.1	Combined routing area updating / combined RA/LA accepted	Х	
12.4.2.2	Combined routing area updating / UE in CS operation at change of RA	Х	Х
12.4.2.4	Combined routing area updating / rejected / PLMN not allowed	Х	
12.4.2.5a Proc 1	Combined routing area updating / rejected / roaming not allowed in this location area / test procedure 1	Х	
12.4.2.5a.Proc 2	Combined routing area updating / rejected / roaming not allowed in this location area / test procedure 2	Х	
12.4.2.6 Proc 1	Combined routing area updating / abnormal cases / access barred due	Х	
12.4.2.6.Proc 2	to access class control / test procedure 1 Combined routing area updating / abnormal cases / access barred due to access class control / test procedure 2	Х	
12.4.3.1	Periodic routing area updating / accepted	Χ	Х
12.4.3.4	Periodic routing area updating / no cell available	Χ	
12.5	P-TMSI reallocation	Χ	Χ
12.6.1.1	Authentication accepted	Х	
12.6.1.2	Authentication rejected - by the network	Χ	
12.6.1.3.1	GMM cause 'MAC failure	Х	
12.6.1.3.2	GMM cause 'Synch failure'	Χ	
12.6.1.3.3	Authentication rejected by the UE / fraudulent network	Χ	
12.7.1	General Identification	Х	Х
12.9.1	Service Request Initiated by UE Procedure	Х	Х
12.9.2	Service Request Initiated by Network Procedure	Х	Х
12.9.3	Service Request / rejected / Illegal MS	Х	Х
12.9.4	Service Request / rejected / PS services not allowed	Х	Х
12.9.6	Service Request / rejected / PLMN not allowed	Х	
12.9.7a	Service Request / rejected / No PDP context activated	Х	
12.9.7b	Service Request / rejected / No Suitable Cells In Location Area	Х	
12.9.7c	Service Request / rejected / Roaming not allowed in this location area	Х	
12.9.8	Service Request / Abnormal cases / Access barred due to access class control	Х	
12.9.9	Service Request / Abnormal cases / Routing area update procedure is triggered	Х	
12.9.12	Service Request / RAB re-establishment / UE initiated / Single PDP context	Х	
12.9.13	Service Request / RAB re-establishment / UE initiated / multiple PDP contexts	Х	
12.9.14	Service Request / RAB re-establishment / Network initiated / single PDP context	Х	Х
	General Tests		
13.2.1.1	Emergency call / with USIM / accept case	Χ	Х
13.2.2.1	Emergency call / without USIM / accept case	Χ	X
13.2.2.2	Emergency call / without USIM / reject case	X	X

A.2.1 Void

A.2.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (NASv710.MP) which accompanies the present document.

A.3 SMS ATS

The approved SMS test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.3: SMS TTCN test cases

Test case	Description	FDD	LCR TDD
16.1.1	SMS on CS mode / SMS mobile terminated	Х	X
16.1.2	SMS on CS mode / SMS mobile originated	Х	X
16.1.9.1	SMS on CS mode / Multiple SMS mobile originated / UE in idle mode	Х	
16.1.9.2	SMS on CS mode / Multiple SMS mobile originated / UE in active mode	Х	Х
16.1.10	SMS on CS mode / Test of capabilities of simultaneously receiving a short	Х	
	message whilst sending a mobile originated short message		
16.2.1	SMS on PS mode / SMS mobile terminated	Х	
16.2.2	SMS on PS mode / SMS mobile originated	Х	
16.2.10	SMS on PS mode / Test of capabilities of simultaneously receiving a short	Х	
	message whilst sending a mobile originated short message		
16.3	Short message service cell broadcast	Х	

A.3.1 Void

A.3.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (SMSv710.MP) which accompanies the present document.

A.4 RRC ATS

The approved RRC test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.4: RRC TTCN test cases

Test case	Description	FDD	LCR TDD
	Single Cell		
6.1.1.4	PLMN selection of RPLMN, HPLMN, UPLMN and OPLMN; Automatic mode	Х	
6.1.1.5	PLMN selection of "Other PLMN / access technology combinations"; Automatic mode	Х	
6.1.1.7	Cell reselection of ePLMN in manual mode	Χ	
6.1.2.1	Cell reselection	X	
6.1.2.1a	Cell reselection for inter-band operation	X	
		X	
6.1.2.2	Cell reselection using Qhyst, Qoffset and Treselection		
6.1.2.3	HCS Cell reselection	X	
6.1.2.4	HCS Cell reselection using reselection timing parameters for the H criterion	Х	
6.1.2.5	HCS Cell reselection using reselection timing parameters for the R criterion	Х	
6.1.2.6	Emergency calls	Χ	
6.1.2.8	Cell reselection: Equivalent PLMN	Χ	
6.1.2.9a	Cell reselection using cell status and cell reservations – Type 'A' USIM	X	
	Cell reselection using cell status and cell reservations – Type 'B' USIM	X	
6.1.2.9b			
8.1.1.1	RRC / Paging for Connection in idle mode	Х	Х
8.1.1.2	RRC / Paging for Connection in connected mode (CELL_PCH)	Χ	
8.1.1.3	R RRC / Paging for Connection in connected mode (URA_PCH)	Χ	
8.1.1.4	RRC / Paging for notification of BCCH modification in idle mode	Х	Х
8.1.1.5	RRC / Paging for notification of BCCH modification in connected mode (CELL_PCH)	Χ	
8.1.1.6	RRC / Paging for notification of BCCH modification in connected mode (URA_PCH)	Χ	
8.1.1.7		Х	
	RRC / Paging for connection in connected mode (CELL_DCH)		X
8.1.1.8	RRC / Paging for Connection in connected mode (CELL_FACH)	Χ	X
8.1.1.9	RRC / Paging for Connection in idle mode (multiple paging records)	Χ	
8.1.1.10	RRC / Paging for Connection in connected mode (URA_PCH, multiple paging records)	Х	
8.1.2.1	RRC / RRC Connection Establishment in CELL_DCH state: Success	Х	
8.1.2.2	RRC / RRC Connection Establishment: Success after T300 timeout	Χ	
8.1.2.3	RRC / RRC Connection Establishment: Failure (V300 is greater than N300)	Χ	
8.1.2.4	RRC / RRC Connection Establishment: Reject ("wait time" is not equal to 0)	Χ	
8.1.2.7	RRC Connection Establishment in CELL_FACH state: Success	V	Χ
	RRC / RRC Connection Establishment: Success after Physical channel	X	^
8.1.2.9	failure and Invalid configuration		
8.1.2.10	RRC / Radio Bearer Establishment for transition from CELL_DCH to	Χ	
	CELL_FACH (Frequency band modification): Success		
8.1.2.10a	RRC connection establishment in CELL_DCH on another frequency in a different frequency band	Χ	
8.1.2.11	RRC Connection Establishment in FACH state (Frequency band modification): Success	Х	
8.1.3.1	RRC / RRC Connection Release in CELL_DCH state: Successful	Χ	Χ
8.1.3.3	RRC / RRC Connection Release using on CCCH in CELL_FACH state: Failure	X	X
0.4.2.4			
8.1.3.4	RRC / RRC Connection Release in CELL_FACH state: Failure	X	
8.1.3.5	RRC / RRC Connection Release in CELL_FACH state: Invalid message	Х	
8.1.3.9	RRC Connection Release in CELL_DCH state (Network Authentication Failure): Success	Х	
8.1.5.1	RRC / UE Capability in CELL_DCH state: Success	Χ	Χ
8.1.5.4	RRC / UE Capability in CELL_FACH state: Success	Х	Χ
8.1.6.1	Direct Transfer in CELL_DCH state (invalid message reception and no signalling connection exists)	Х	
8.1.6.3	Measurement Report on INITIAL DIRECT TRANSFER message and UPLINK DIRECT TRANSFER message	Χ	
8.1.7.1	Security mode command in CELL_DCH state (CS Domain)	Х	
		X	
8.1.7.1b	Security mode command in CELL_DCH state (PS Domain)	X	
8.1.7.1c	Security mode control in CELL_DCH state (CN Domain switch and new	Λ	

Test case	Description	FDD	LCR TDD
8.1.7.1d	Security mode control in CELL_DCH state interrupted by a cell update	Χ	
8.1.7.2	RRC / Security mode control in CELL_FACH state	Χ	
8.1.9	RRC / Signalling Connection Release Indication	X	Χ
8.1.10.1	Dynamic change of segmentation, concatenation & scheduling and handling of unsupported information blocks	Х	
8.1.12	RRC / Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	X	Х
8.2.1.1	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success	Х	
8.2.1.4	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Physical channel Failure and successful reversion to old configuration)	Х	
8.2.1.7	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Failure (Invalid message reception and invalid configuration)	Х	
8.2.1.8	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success	Х	Х
8.2.1.9	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH: Success (Cell re-selection)	Х	
8.2.1.10	RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH (Frequency band modification): Success	Х	
8.2.1.24	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH (Frequency band modification): Success	Х	
8.2.1.24a	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH (Inter band handover): Success	Х	
8.2.1.33	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Unsynchronised RL Reconfiguration)	Х	
8.2.1.34	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Unsynchronised RL Reconfiguration with frequency modification)	Х	
8.2.1.34a	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Unsynchronised RL Reconfiguration with interband handover)	Х	
8.2.2.1	RRC / Radio Bearer Reconfiguration (Hard Handover) from CELL_DCH to CELL_DCH: Success	Х	
8.2.2.4	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion failure)	Х	
8.2.2.7	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (stop and continue)	Х	
8.2.2.8	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success	Х	Х
8.2.2.9	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Success (Cell re-selection)	Х	Х
8.2.2.10	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Success	Х	
8.2.2.11	Radio Bearer Reconfiguration from CELL_FACH to CELL_DCH: Failure (Unsupported configuration)	Х	Х
8.2.2.17	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success	Х	X
8.2.2.18	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_FACH: Success (Cell re-selection)	Х	
8.2.2.19	RRC / Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (Subsequently received)	Х	
8.2.2.23	RRC / Radio Bearer Reconfiguration from CELL_FACH to CELL_PCH: Success	Х	
8.2.2.31	Radio Bearer Reconfiguration for transition from CELL_FACH to CELL_DCH (Frequency band modification): Success	Х	
8.2.2.35	Radio Bearer Reconfiguration from CELL_DCH to CELL_FACH: Successful channel switching with multiple PS RABs established	Х	
8.2.2.43	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Seamless SRNS relocation, without pending of ciphering, frequency band modification)	Х	
8.2.3.1	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success	Х	
8.2.3.7	RRC / Radio Bearer Release for transition from CELL_DCH to	Χ	Х

Test case	Description	FDD	LCR TDD
8.2.3.8	CELL_FACH: Success RRC / Radio Bearer Release for transition from CELL_DCH to	Х	
8.2.3.9	CELL_FACH: Success (Cell re-selection) RRC / Radio Bearer Release for transition from CELL_FACH to	Х	Х
0.0044	CELL_DCH: Success		
8.2.3.11	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and successful reversion to old configuration)	Х	Х
8.2.3.15	RRC / Radio Bearer Release for transition from CELL_FACH to CELL_FACH: Success	Х	Х
8.2.3.18	RRC / Radio Bearer Release from CELL_DCH to CELL_PCH: Success	Χ	
8.2.3.19	RRC / Radio Bearer Release from CELL_DCH to URA_PCH: Success	Χ	X
8.2.3.29	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Associated with signalling connection release during multi call for PS and CS services	Х	Х
8.2.4.1	Transport channel reconfiguration (Timing re- initialised hard handover with transmission rate modification) from CELL_DCH to CELL_DCH: Success	Х	
8.2.4.1a	Transport channel reconfiguration (Transmission Rate Modification) from CELL_DCH to CELL_DCH of the same cell: Success	Х	
8.2.4.3	RRC / Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and reversion to old configuration)	Х	
8.2.4.4	Transport channel reconfiguration from CELL_DCH to CELL_DCH: Failure (Physical channel failure and cell reselection)	Х	
8.2.4.10	RRC / Transport channel reconfiguration from CELL_FACH to CELL_DCH: Success	Х	
8.2.6.1	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover for code modification): Success	Х	
8.2.6.2	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover for code modification): Failure (Unsupported configuration)	Х	
8.2.6.7	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success	Х	Х
8.2.6.8	RRC / Physical channel reconfiguration for transition from CELL_DCH to CELL_FACH: Success (Cell re-selection)	Х	
8.2.6.9	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Success	Х	
8.2.6.11	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and successful reversion to old configuration)	Х	Х
8.2.6.12	RRC / Physical channel reconfiguration for transition from CELL_FACH to CELL_DCH: Failure (Physical channel failure and cell re-selection)	Х	
8.2.6.19	RRC / Physical channel reconfiguration from CELL_DCH to CELL_PCH: Success	Х	
8.2.6.20	RRC / Physical channel from CELL_DCH to URA_PCH: Success	Χ	Х
8.2.6.37	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency with timing reinitialised)	Х	
8.2.6.37b	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency band cell with timing re-initialised)	Х	
8.2.6.38	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency with timing reinitialised): Failure (Physical channel failure and reversion to old channel)	Х	
8.2.6.39	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Seamless SRNS relocation) (without pending of ciphering)	Х	
8.2.6.44	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Failure (Radio link failure in new configuration)	Х	
8.3.1.1	RRC / Cell Update: cell reselection in CELL_FACH	Χ	
8.3.1.1a	Cell Update: cell reselection in CELL_FACH (Cells belong to different frequency bands)	X	
8.3.1.2 8.3.1.3	RRC / Cell Update: cell reselection in CELL_PCH	X	
U.J. I.J	RRC / Cell Update: periodical cell update in CELL_FACH	Λ	

Test case	Description	FDD	LCR TDD
8.3.1.5	RRC / Cell Update: UL data transmission in URA_PCH	Χ	
8.3.1.6	RRC / Cell Update: UL data transmission in CELL_PCH	Χ	
8.3.1.9	RRC / Cell Update: re-entering of service area after T305 expiry and being out of service area	Х	
8.3.1.10	RRC / Cell Update: expiry of T307 after T305 expiry and being out of service area	Х	
8.3.1.11	RRC / Cell Update: Success after T302 time-out	Χ	
8.3.1.12	RRC / Cell Update: Failure (After Maximum Re-transmissions)	Χ	
8.3.1.15	RRC / Cell Update: Unrecoverable error in Acknowledged Mode RLC	Χ	
8.3.1.17	RRC / Cell Update: Failure (UTRAN initiate an RRC connection release procedure on CCCH)	Х	
8.3.1.18	RRC / Cell Update: Radio Link Failure (T314>0, T315=0), CS RAB established	Х	
8.3.1.21	Cell Update: Cell reselection to cell of another PLMN belonging to the equivalent PLMN list	Х	
8.3.1.23	Cell Update: HCS cell reselection in CELL_FACH	Χ	
8.3.1.24	Cell Update: HCS cell reselection in CELL_PCH	Χ	
8.3.1.25	CELL UPDATE: Radio Link Failure (T314=0, T315=0)	Χ	
8.3.1.22	Cell update: Restricted cell reselection to a cell belonging to forbidden LA list (Cell_FACH)	Х	
8.3.1.30	Cell Update: Radio Link Failure (T314>0, T315>0), PS RAB	Χ	
8.3.1.31	Cell Update: re-entering of service area from URA_PCH after T316 expiry but before T317 expiry	Х	
8.3.2.1	RRC / URA Update: Change of URA	Χ	
8.3.2.1a	URA Update: Change of URA (Cells belong to different frequency bands)	Х	
8.3.2.2	RRC / URA Update: Periodical URA update and Reception of Invalid message	Х	
8.3.2.4	RRC / URA Update: loss of service after expiry of timers T307 after T306	Χ	
8.3.2.7	RRC / URA Update: Success after T303 timeout	Х	
8.3.2.9	RRC / URA Update: Failure (UTRAN initiate an RRC connection release procedure on CCCH)		
8.3.2.11	URA Update: Cell reselection to cell of another PLMN belonging to the equivalent PLMN list	Х	
8.3.2.12	Restricted cell reselection to a cell belonging to forbidden LA list (URA_PCH)	Х	
8.3.2.13	URA Update: Change of URA due to HCS Cell Reselection	Χ	
8.3.3.1	RRC / UTRAN Mobility Information: Success	Χ	
8.3.4.1	RRC / Active set update in soft handover: Radio Link addition	Χ	
8.3.4.2	RRC / Active set update in soft handover: Radio Link removal	Χ	
8.3.4.3	RRC / Active set update in soft handover: Combined radio link addition and removal	Х	
8.3.4.8	Active set update in soft handover: Radio Link addition in multiple radio link environment	Х	
8.4.1.1	Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_DCH state	Х	
8.4.1.2	RRC / Measurement Control and Report: Inter-frequency measurement for transition from idle mode to CELL_DCH state	Х	
8.4.1.2B	Measurement Control and Report: Inter-band measurement for transition from idle mode to CELL_DCH state (FDD)	Х	
8.4.1.3	RRC / Measurement Control and Report: Intra-frequency measurement for transition from idle mode to CELL_FACH state	Х	
8.4.1.5	RRC / Measurement Control and Report: Intra-frequency measurement for transition from CELL_DCH to CELL_FACH state	Х	
8.4.1.6	RRC / Measurement Control and Report: Inter- frequency measurement for transition from CELL_DCH to CELL_FACH state	Х	
8.4.1.7	RRC / Measurement Control and Report: Intra- frequency measurement for transition from CELL_FACH to CELL_DCH state	Х	
8.4.1.8	Measurement Control and Report: Inter-frequency measurement for transition from CELL_FACH to CELL_DCH state (FDD)	Х	
8.4.1.14	RRC / Measurement Control and Report: Cell forbidden to affect reporting range	Х	
8.4.1.16	Measurement Control and Report: Traffic volume measurement for transition from idle mode to CELL_FACH state	Х	Х
8.4.1.17	RRC / Measurement Control and Report: Traffic volume measurement for transition from idle mode to CELL_DCH state	Х	Х

Test case	Description	FDD	LCR TDD
8.4.1.18	RRC / Measurement Control and Report: Traffic volume measurement for transition from CELL_FACH state to CELL_DCH state	Х	
8.4.1.19	RRC / Measurement Control and Report: Traffic volume measurement for transition from CELL_DCH to CELL_FACH state	Х	
8.4.1.23	RRC / Measurement Control and Report: Intra-frequency measurement for events 1C and 1D	Х	
8.4.1.24	RRC / Measurement Control and Report: Inter-frequency measurement for event 2A	X	Х
8.4.1.24A	Measurement Control and Report: Inter-band measurement for event 2A	Χ	
8.4.1.25	RRC / Measurement Control and Report: Inter-frequency measurement for events 2B and 2E	Х	
8.4.1.25A	Measurement Control and Report: Inter-band measurement for events 2B and 2E	Х	
8.4.1.26	RRC / Measurement Control and Report: Inter-frequency measurement for events 2D and 2F	Х	
8.4.1.27	RRC / Measurement Control and Report: UE internal measurement for events 6A and 6B	Х	
8.4.1.28	Measurement Control and Report: UE internal measurement for events 6F (FDD) and 6G	Х	
8.4.1.29	RRC / Measurement Control and Report: Event based Traffic Volume measurement in CELL_FACH state	Х	
8.4.1.30	RRC / Measurement Control and Report: Event based Traffic Volume measurement in CELL_DCH state	Х	
8.4.1.37	Measurement Control and Report: UE internal measurement, event 6c	Χ	
8.4.1.38	Measurement Control and Report: UE internal measurement, event 6d	Χ	
8.4.1.41	Measurement Control and Report: Additional Measurements list	Χ	
8.4.1.42	Measurement Control and Report: Change of Compressed Mode Method	Χ	

A.4.1 Void

A.4.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (RRCv710.MP) which accompanies the present document.

A.5 RLC ATS

The approved RLC test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.5: RLC TTCN test cases

Test case	Description	FDD	LCR TDD
7.2.2.3	UM RLC / Segmentation / 7-bit Length Indicators / Padding	Х	
7.2.2.4	UM RLC / Segmentation / 7-bit Length Indicators / LI = 0	Х	
7.2.2.5	UM RLC / Segmentation / 7-bit Length Indicators / Invalid LI value	Х	
7.2.2.6	UM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	Х	
7.2.2.7	UM RLC / Segmentation / 7-bit Length Indicators / First data octet LI	Х	
7.2.3.4	AM RLC / Segmentation / 7-bit Length Indicators / LI = 0	Х	
7.2.3.5	AM RLC / Segmentation / 7-bit Length Indicators / Reserved LI value	Х	
7.2.3.6	AM RLC / Segmentation / 7-bit Length Indicators / LI value > PDU	Х	
7.2.3.12	AM RLC / Correct use of Sequence Numbering	Х	Х
7.2.3.13	AM RLC / Control of Transmit Window	Х	
7.2.3.14	AM RLC / Control of Receive Window	Х	
7.2.3.15	AM RLC / Polling for status / Last PU in transmission queue	Х	
7.2.3.16	AM RLC / Polling for status / Last PU in retransmission queue	Х	
7.2.3.17	AM RLC / Polling for status / Poll every Poll_PU PUs	Χ	
7.2.3.18	AM RLC / Polling for status / Poll every Poll_SDU SDUs	X	
7.2.3.19	AM RLC / Polling for status / Timer triggered polling	Х	
	(Timer_Poll_Periodic)		
7.2.3.20	AM RLC / Polling for status / Polling on Poll_Window of transmission	Х	
	window		
7.2.3.21	AM RLC / Polling for status / Operation of Timer_Poll timer / Timer	Х	
	expiry		
7.2.3.22	AM RLC / Polling for status / Operation of Timer_Poll timer / Stopping	Х	
	Timer_Poll timer		
7.2.3.23	AM RLC / Polling for status / Operation of Timer_Poll timer / Restart of	Х	
	the Timer_Poll timer	.,	
7.2.3.24	AM RLC / Polling for status / Operation of timer Timer_Poll_Prohibit	X	
7.2.3.25	AM RLC / Receiver Status Triggers / Detection of missing PUs	X	
7.2.3.26	AM RLC / Receiver Status Triggers / Operation of timer	Х	
	Timer_Status_Periodic	.,	
7.2.3.27	AM RLC / Receiver Status Triggers / Operation of timer	Х	
7.0.0.00	Timer_Status_Prohibit		
7.2.3.28	AM RLC / Status reporting / Abnormal conditions / Reception of LIST	Х	
7.0.0.00	SUFI with Length set to zero		
7.2.3.32	AM RLC / SDU discard after MaxDAT number of retransmissions	X	
7.2.3.33	AM RLC / Operation of the RLC Reset procedure / UE Originated	X	— V
7.2.3.34	AM RLC / Operation of the RLC Reset procedure / UE Terminated	X	X
7.2.3.35	AM RLC / Reconfiguration of RLC parameters by upper layers	Χ	

A.5.1 Void

A.5.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (RLCv710.MP) which accompanies the present document.

A.6 MAC ATS

The approved MAC test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.6: MAC TTCN test cases

Test case	Description	FDD	LCR TDD
7.1.1.1	CCCH mapped to RACH/FACH / Invalid TCTF	Х	Х
7.1.1.2	DTCH or DCCH mapped to RACH/FACH / Invalid TCTF	Х	X
7.1.1.3	DTCH or DCCH mapped to RACH/FACH / Invalid C/T Field	Х	
7.1.1.4	DTCH or DCCH mapped to RACH/FACH / Invalid UE ID Type Field	Х	
7.1.1.5	DTCH or DCCH mapped to RACH/FACH / Incorrect UE ID	Х	
7.1.1.8	DTCH or DCCH mapped to DCH / Invalid C/T Field	Х	X
7.1.2.3.1	Correct Selection of RACH parameters (FDD)	Х	
7.1.2.4a	Access Service class selection for RACH transmission	Х	
7.1.3.1	Priority handling between data flows of one UE	Х	X
7.1.3.2	TFC Selection	Х	

A.6.1 Void

A.6.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (MACv710.MP) which accompanies the present document.

A.7 BMC ATS

Table A.7: BMC TTCN test cases

I	Test case	Description
Ī	-	-

A.7.1 Void

A.7.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (BMC.MP) which accompanies the present document.

A.8 PDCP ATS

Table A.8: PDCP TTCN test cases

Test case	Description
-	-

A.8.1 Void

A.8.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to this ATS is contained in an ASCII file (PDCP.MP) which accompanies the present document.

A.9 RAB ATS

The approved RAB test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.9: RAB TTCN test cases

Test case	Description	FDD	LCR TDD
14.2.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.4a	Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.5a	Conversational / speech / UL:(10.2, 6.7, 5.9, 4.75) DL:(10.2, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.7a	Conversational / speech / UL:(7.4, 6.7, 5.9, 4.75) DL:(7.4, 6.7, 5.9, 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
14.2.9	Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.12	Conversational / unknown / UL:28.8 DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.13.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	Х	
14.2.14.1	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.14.2	Conversational / unknown / UL:32 DL:32 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 40 ms TTI	Х	
14.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.16	Streaming / unknown / UL:28.8/DL:28.8 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.17	Streaming / unknown / UL:57.6/DL:57.6 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Χ	
14.2.23a1	Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.23a.2	Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / TC	Х	
14.2.23b	Interactive or background / UL:16 DL:16 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.23c	Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.27	Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.28	Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Χ	
14.2.29	Interactive or background / UL:64 DL:144 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH	Х	
14.2.31.1	Interactive or background / UL:64 DL:256 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH /10 ms TTI	Х	
14.2.32.1	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 10 ms TTI	Х	
14.2.32.2	Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.34.1	Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	Х	
14.2.38a	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.38b	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.38c	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:32 DL:32 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.38e	Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:0 DL:0 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	

14.2.38f	Conversational / speech / UL:(12.2 7.95 5.9 4.75) DL:(12.2 7.95 5.9 4.75) kbps / CS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.40	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB+ UL:3.4 DL: 3.4 kbps SRBs for DCCH	Х	
14.2.41	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.43.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms TTI	Х	
14.2.43.2	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.49.1	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Conversational / unknown / UL:64 DL:64 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 20 ms TTI	Х	
14.2.51.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.51a.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:8 DL:8 kbps / PS RAB	Х	
14.2.51b.1	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 20 ms TTI + Interactive or background / UL:16 DL:64 kbps / PS RAB	Х	
14.2.57	Interactive or background / UL:64 DL:64 kbps / PS RAB + Interactive or background / UL:64 DL:64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.2.58	Streaming / unknown / UL:16 DL:64 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.	Х	
14.2.58a	Streaming / unknown / UL:16 DL:128 kbps / PS RAB + Interactive or background / UL:8 DL:8 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH.	Х	
14.4.2.1	One SCCPCH: Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.2.2	Two SCCPCHs: Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.2.3	One SCCPCH/connected mode: Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.2a.1	One SCCPCH: Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.2a.2	Two SCCPCHs: Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB	Х	
14.4.2a.3	One SCCPCH/connected mode: Interactive/Background 32 kbps PS RAB + Interactive/Background 32 kbps PS RAB + SRBs for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.3	Interactive/Background 32 kbps RAB + SRBs for PCCH + SRB for CCCH + SRB for DCCH + SRB for BCCH	Х	
14.4.4	RB for CTCH + SRB for CCCH +SRB for BCCH	Χ	
18.1.2.6	Conversational / speech / UL:7.95 DL:7.95 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		Х
18.1.2.7	Conversational / speech / UL:7.4 DL:7.4 kbps / CS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH		Х
18.1.2.13.2	Conversational / unknown / UL:64 DL:64 kbps / CS RAB / 40 ms TTI		Χ
18.1.2.15	Streaming / unknown / UL:14.4/DL:14.4 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		Х
18.1.2.26	Interactive or background / UL:64 DL: 64 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		Х

A.9.1 Void

A.9.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (RABv710.MP) which accompanies the present document.

A.10 IR_U ATS

The approved IR_U test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.10: InterRat TTCN test cases

Test case	Description	FDD	LCR_TDD
6.2.1.1	Selection of the correct PLMN and associated RAT	Х	
6.2.1.6	Selection of RAT for HPLMN; Automatic mode	Х	
6.2.1.7	Selection of RAT for UPLMN; Automatic mode	Х	
6.2.1.8	Selection of RAT for OPLMN; Automatic mode	Х	
6.2.1.9	Selection of "Other PLMN / access technology combinations"; Automatic mode	Х	
6.2.2.1	Cell reselection if cell becomes barred or S<0; UTRAN to GSM	Х	
6.2.2.2	Cell reselection if cell becomes barred or C1<0; GSM to; UTRAN	Х	
6.2.2.3	Cell reselection timings; GSM to UTRAN	Х	
8.1.2.12	RRC Connection Establishment: Reject with interRATInfo is set to GSM	Х	
8.1.2.13	RRC Connection Establishment: Reject with InterRATInfo is set to GSM and	Х	
	selection to the designated system fails		
8.3.7.1	Inter system handover from UTRAN/To GSM/Speech/Success	Х	
8.3.7.2	Inter system handover from UTRAN/To GSM/Data/Same data rate/Success	Χ	
8.3.7.3	Inter system handover from UTRAN/To GSM/Data/Data rate down grading/Success	Χ	
8.3.7.4	Inter system handover from UTRAN/To GSM/Speech/Establishment/Success	Χ	
8.3.7.5	Inter system handover from UTRAN/To GSM/Speech/Failure	Χ	
8.3.7.7	Inter system handover from UTRAN/To GSM/Speech/Failure (L1 Synchronization)	Х	
8.3.7.9	Inter system handover from UTRAN/To GSM/Speech/Failure (Unsupported	Х	
	configuration)		
8.3.7.12	Inter system handover from UTRAN/To GSM/Speech/Failure (Physical channel	Х	
	Failure and Reversion Failure)		
8.3.7.13	Inter system handover from UTRAN/To GSM/ success / call under establishment	Х	
8.3.7.16	Inter system handover from UTRAN/To GSM/Simultaneous CS and PS domain	Х	
	services/Success/TBF Establishment Success		
8.3.7.17	Inter system handover from UTRAN/To GSM/DTM Support/Simultaneous CS and PS	Χ	
	domain services/Success		
8.3.9.1	Cell reselection if cell becomes barred or S<0; UTRAN to GPRS (CELL_FACH)	Χ	
8.3.9.3	Cell reselection fails if S<0; UTRAN to GPRS (CELL_FACH)	Χ	
8.3.9.5	Cell Reselection with RAU - Qoffset value modification; UTRAN to GPRS	Χ	
	(CELL_FACH)		
8.3.11.1	Cell change order from UTRAN/To GPRS/CELL_DCH/Success	Χ	
8.3.11.4	Cell change order from UTRAN/To GPRS/CELL_DCH/Failure (Physical channel &	Х	
	Reversion Failure)		
8.4.1.31	RRC / Measurement Control and Report: Inter-RAT measurement in CELL_DCH	Х	
	state		
8.4.1.33	Measurement Control and Report: Inter-RAT measurement, event 3a	Χ	
8.4.1.34	Measurement Control and Report: Inter-RAT measurement, event 3b	Χ	
8.4.1.35	Measurement Control and Report: Inter-RAT measurement, event 3c	Χ	
8.4.1.36	Measurement Control and Report: Inter-RAT measurement, event 3d	Χ	
8.4.1.40	Measurement Control and Report: Inter-RAT measurement event 3C in CELL_DCH	Х	
	state using sparse compressed mode pattern		
8.4.1.48	Measurement Control and Report: Combined Inter-frequency measurement for event	Х	
	2b and Inter-RAT measurement, event 3a (FDD)		
12.8	GMM READY timer handling	Χ	

A.10.1 Void

A.10.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (IR_Uv710.MP) which accompanies the present document.

A.11 AGPS ATS

The approved AGPS test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.11: AGPS TTCN test cases

Test case	Description	FDD	LCR_TDD
17.2.2.1	LCS Network Induced location request/ UE-Based GPS/ Emergency Call / with USIM	Х	
17.2.2.2	LCS Network Induced location request/ UE-Based GPS/ Emergency Call / without USIM	Х	
17.2.2.3	LCS Network induced location request/ UE-Assisted GPS/ Emergency call/ With USIM	Х	
17.2.2.4	LCS Network induced location request/ UE-Assisted GPS/ Emergency call/ Without USIM	Х	
17.2.3.2	LCS Mobile originated location request/ UE-Based GPS/ Position estimate request/ Success	Х	
17.2.3.3	LCS Mobile originated location request/ UE-Based or UE-Assisted GPS/ Assistance data request/ Success	Х	
17.2.3.4	LCS Mobile originated location request/ UE-Assisted GPS/ Position Estimate/ Success	Х	
17.2.3.8	LCS Mobile originated location request/ UE-Based or UE-Assisted GPS/ Assistance data request/ Failure	Х	
17.2.3.9	LCS Mobile originated location request/ UE-Assisted GPS/ Position Estimate/ Success	Х	
17.2.4.1	LCS Mobile terminated location request/ UE-Based GPS	Х	
17.2.4.2	LCS Mobile-terminated location request/UE-Based GPS/ Request for additional assistance data/ Success	Х	
17.2.4.3	LCS Mobile-terminated location request/UE-Based GPS/ Failure – Not Enough Satellites	Х	
17.2.4.4	LCS Mobile terminated location request/ UE-Assisted GPS/ Success	X	
17.2.4.5	LCS Mobile terminated location request/ UE-Assisted GPS/ Request for additional assistance data/ Success	Х	
17.2.4.6	LCS Mobile terminated location request/ UE-Based GPS/ Privacy Verification/ Location Allowed if No Response	Х	
17.2.4.7	LCS Mobile terminated location request/ UE-Based GPS/ Privacy Verification/ Location Not Allowed if No Response	Х	
17.2.4.8	LCS Mobile terminated location request/ UE-Assisted GPS/ Privacy Verification/ Location Allowed if No Response	Х	
17.2.4.9	LCS Mobile terminated location request/ UE-Assisted GPS/ Privacy Verification/ Location Not Allowed if No Response	Х	

A.11.1 Void

A.11.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (AGPSv710.MP) which accompanies the present document.

A.12 HSD_ENH ATS

The approved HSD_ENH test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.12: HSDPA and Rel-5 enhancement TTCN test cases

HCS inter-frequency cell reselection for inter-band operation	Test case	Description	FDD	LCR_TDD
X	6.1.2.10			
X				
X				
MAC-his retransmissions				
X		<u> </u>		
X				
8.1.2.14 RRC Connection Establishment using the default configuration for 3.4 kbps signalling bearers 8.1.2.15 RRC Connection Establishment using the default configuration for 13.6 kbps signalling bearers 8.1.6.15 Initial Direct Transfer: Inclusion of establishment cause 8.1.6.2 Initial Direct Transfer: Inclusion of establishment cause 8.1.1.6.3 Paging for notification of synchronised BCCH modification in ide mode using 8.2.1.27 RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (two radio links, start of HS-DSCH reception) 8.2.1.28 RRC/Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (RB mapping for both DL DCH and HS-DSCH in cell without HS-DSCH support) 8.2.1.29 Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, uplink 1.7CS restriction and start of HS-DSCH reception) 8.2.1.30 Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, start of HS-DSCH reception) 8.2.1.31 Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Iming re-initialized hard handover to another frequency, start of HS-DSCH reception) 8.2.1.32 Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (Istart of HS-DSCH reception) 8.2.2.33 Radio Bearer Establishment for transition from CELL_DCH: Success (Istart of HS-DSCH reception) 8.2.2.34 Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (Istart and stop of HS-DSCH reception) 8.2.2.35 Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: X Success (Irming re-initialised hard handover to another frequency, start and stop of HS-DSCH reception) 8.2.2.36 Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: X Success (Irming re-initialised hard handover to another frequency, start and stop of HS-DSCH reception) 8.2.2.41 Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: X Su				
signalling bearers RRC Connection Establishment using the default configuration for 13.6 kbps signalling bearers Initial Direct Transfer: Inclusion of establishment cause X B.1.1.6a Paging for notification of synchronised BCCH modification in idle mode using BCCH modification time RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (two radio links, start of HS-DSCH reception) RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (RB mapping for both DL DCH and HS-DSCH in cell without HS-DSCH support) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, uplink TFCS restriction and start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (Start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: Success (start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_FACH to CELL_DCH: X Success (start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_DCH: X Success (start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: X Success (start of HS-DSCH reception) RRC / Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (with a active HS-DSCH reception) RRC / Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Start and stop of HS-DSCH reception) Radio	8.1.2.14	RRC Connection Establishment using the default configuration for 3.4 kbps		
signalling bearers 8.1.6.5 Initial Direct Transfer Inclusion of establishment cause 8.1.1.6a Paging for notification of synchronised BCCH modification in idle mode using X B.1.1.6a Paging for notification of synchronised BCCH modification in idle mode using X BCCH modification time 8.2.1.27 CREATED STATE STA		signalling bearers		
8.1.6.5 Initial Direct Transfer: Inclusion of establishment cause X Balin.1.6a Paging for notification of synchronised BCCH modification in idle mode using SCCH modification time RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: Success (two radio links, start of HS-DSCH reception) X CELL_DCH: Success (two radio links, start of HS-DSCH in cell without HS-DSCH support) Minimum of transition from CELL_DCH to CELL_DCH: CELL_DCH: Success (RB mapping for both DL DCH and HS-DSCH in cell without HS-DSCH support) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: X Success (Timing re-initialized hard handover to another frequency, uplink FTCS restriction and start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: X Success (Timing re-initialized hard handover to another frequency, start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: X Success (Timing re-initialized hard handover to another frequency, start of HS-DSCH reception) Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH: X Success (Start of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: X Success (Start of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH to X CELL_DCH: Success (Start and Stop of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH: Success (with a caive HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH: X Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH: X Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH: X Success (Timing re-initialised hard handover to another frequency, sta	8.1.2.15		X	
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Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_FACH and from CELL_FACH to CELL_DCH: Success (frequency band modification, start and stop of HS-DSCH reception) Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: X Success (Start and stop of HS-DSCH reception, during an active CS bearer) Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: X Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception, during an active CS bearer) Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: X Success (Timing re-initialised hard handover to another frequency, start and stop of HS-DSCH reception, during an active CS bearer) Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (from speech to speech plus PS data with modification of downlink spreading factor) RCC / Radio Bearer Release for transition from CELL_DCH to CELL_DCH: X Success (stop of HS-DSCH reception) Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (With active HS-DSCH reception) Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (Stop of HS-DSCH reception with frequency modification) Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (stop of HS-DSCH reception with frequency modification) Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success (stop of HS-DSCH reception with frequency modification) Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success (stop of HS-DSCH reception) Radio Bearer Release for transition from CELL_DCH to CELL_PCH: Success (stop of HS-DSCH reception) Radio Bearer Release for transition from CELL_DCH to CELL_PCH: Success (stop of HS-DSCH reception) Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success (stop of HS-DSCH reception)				
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Radio Bearer Release for transition from CELL_DCH to CELL_FACH: Success X (stop of HS-DSCH reception with frequency modification) 8.2.3.35 Radio Bearer Release for transition from CELL_DCH to CELL_PCH: Success X (stop of HS-DSCH reception) 8.2.4.36 Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success X (with active HS-DSCH reception, not changing the value of TTI during UL rate modification)		(stop of HS-DSCH reception with frequency modification)		
Radio Bearer Release for transition from CELL_DCH to CELL_PCH: Success X (stop of HS-DSCH reception) 8.2.4.36 Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success X (with active HS-DSCH reception, not changing the value of TTI during UL rate modification)	8.2.3.34		X	
(stop of HS-DSCH reception) 8.2.4.36 Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success (with active HS-DSCH reception, not changing the value of TTI during UL rate modification)				
8.2.4.36 Transport Channel Reconfiguration from CELL_DCH to CELL_DCH: Success X (with active HS-DSCH reception, not changing the value of TTI during UL rate modification)	8.2.3.35		X	
(with active HS-DSCH reception, not changing the value of TTI during UL rate modification)	0.2.4.26		V	
modification)	0.2.4.30		λ	
5.2.5.555 project charmer reconfiguration for transferring DELE DOLLO I A	8.2.6.39a	Physical Channel Reconfiguration for transition from CELL_DCH to	Х	

	CELL_DCH: Success (serving HS-DSCH cell change without MAC-hs reset)	
8.2.6.39b	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (serving HS-DSCH cell change with MAC-hs reset)	X
8.2.6.40	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Two radio links, change of HS-PDSCH configuration)	Х
8.2.6.41	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialised hard handover to another frequency, signalling only)	Х
8.2.6.42	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, Serving HS-DSCH cell change)	Х
8.2.6.46	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH (Hard handover to another frequency with timing re-initialised. Serving HS-DSCH cell change): Failure (Physical channel failure and reversion to old channel)	Х
8.2.6.48	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, serving HS-DSCH cell change, compressed mode)	Х
8.2.6.49	Physical Channel Reconfiguration from CELL_DCH to URA_PCH: Success (stop of HS-DSCH reception)	Х
8.3.1.32	Cell Update: Transition from URA_PCH to CELL_DCH, start of HS-DSCH reception	Х
8.3.1.33	Cell Update: Transition from CELL_PCH to CELL_DCH, start of HS-DSCH reception, frequency band modification	Х
8.3.1.34	Cell Update: Transition from CELL_DCH to CELL_FACH, stop of HS-DSCH reception	X
8.3.1.35	Cell Update: Transition from CELL_DCH to CELL_DCH, with active HS-DSCH reception	Х
8.3.1.36	Cell Update: Transition from CELL_DCH to CELL_FACH (stop of HS-DSCH reception with frequency modification)	X
8.3.1.37	Cell Update: Transition from CELL_DCH to CELL_DCH (with active HS-DSCH reception and frequency modification)	Х
8.3.1.38	Cell Update: state specific handling of Treselection and Qhyst for cell reselection in CELL_FACH	X
8.3.1.39	Cell Update: state specific handling of Treselection and Qhyst for cell reselection in CELL_PCH	Х
8.3.1.40	Cell update: Transition from CELL_PCH to CELL_DCH, inclusion of establishment cause	Х
8.3.4.9	Active set update in soft handover: Radio Link removal (stop of HS-PDSCH reception)	Х
8.3.7.14	Inter system handover from UTRAN/To GSM/Speech/Success (stop of HS-DSCH reception)	X
8.3.11.9	Inter-RAT Cell Change Order from UTRAN to GPRS/CELL_DCH/Success (stop of HS-DSCH reception)	X
8.3.11.10	Inter-RAT Cell Change Order from UTRAN to GPRS/CELL_DCH/Failure (Physical channel Failure, stop of HS-DSCH reception)	Х
8.3.11.12	Inter-RAT cell change order from UTRAN/To GPRS/CELL_DCH/Network Assisted Cell Change/Success	X
8.3.11.13	Inter-RAT cell change order from UTRAN/To GPRS/CELL_DCH/Failure (T309 expiry)	X
8.4.1.47	Measurement Control and Report: Event triggered periodic measurement for event 1B (FDD)	Х
14.2.4b	Conversational / speech / UL:(12.2 7.4 5.9 4.75) DL:(12.2 7.4 5.9 4.75) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH	X
14.2.62	Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH.	Х
14.6.1	Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х
14.6.1a	Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х
14.6.2	Interactive or background / UL:384 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х
14.6.3	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х
14.6.3a	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Interactive or	Х

	background / UL: 64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH		
14.6.4	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.4a	Conversational / unknown / UL:64 DL:64 kbps / CS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.5	Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.5a	Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + Interactive or background / UL:64 DL:[Bit rate depending on the UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Χ	
14.6.6	Streaming / unknown / UL:128 DL: [min 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.7	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming / unknown / UL:128 DL: [guaranteed 128, max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:128 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.6.8	Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Interactive or Background / UL:384 DL:[Bit rate depending on the UE category] / PS RAB+ UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH	Х	

A.12.1 Void

A.12.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (HSD_ENHv710.MP) which accompanies the present document.

A.13 HSU_ENH ATS

The approved HSU_ENH test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.13: EDCH and Rel-6 enhancement TTCN test cases

Test case	Description	FDD	LCR_TDD
6.1.1.8	PLMN selection in shared network environment, Automatic mode	Χ	
6.1.1.9	PLMN selection in shared network environment, Manual Mode	Χ	
6.1.2.11	Cell reselection in shared network environment	Х	
6.2.1.10	Selection of PLMN and RAT in shared network environment, Automatic mode	Х	
6.2.2.4	Cell reselection in multi-mode shared network environment	X	
6.2.2.5	Cell reselection using SIB18; UTRAN to GSM	X	
7.1.6.1.1	MAC-es/e multiplexing without RRC restrictions	X	
7.1.6.1.2	MAC-es/e multiplexing with RRC restrictions	X	
7.1.6.1.3	Correct settings of MAC-es/e header fields	X	
7.1.6.2.1	Correct settings of MAC-es/e scheduling information	X	
7.1.6.2.2	Happy bit setting MAC-es/e non-scheduled transmissions	X	
7.1.6.2.3		X	
7.1.6.2.4	MAC-es/e correct handling of scheduled transmissions when absolute grant varies	X	
7.1.6.2.7	MAC-es/e correct handling of absolute grants on Primary and Secondary E-RNTI MAC-es/e combined non-scheduled and scheduled transmissions	X	
7.1.6.2.8		X	
7.1.6.2.9 7.1.6.2.10	MAC-es/e Correct handling of HARQ profile power offsets MAC-es/e Correct handling of minimum set of E-TFCI	X	
7.1.6.2.10	MAC-es/e E-TFC priority	X	
7.1.6.3.1	MAC-es/e process handling	X	
7.1.6.4.1	MAC-es/e maximum number of retransmissions	X	
7.1.6.4.3	MAC-es/e Correct handling of MAC-es/e reset	X	
8.1.1.11	Paging for Connection in idle mode (Shared Network Environment)	X	
8.1.2.16	RRC Connection Establishment / Domain Specific Access Control: Success	X	
8.1.2.17	RRC Connection Establishment for transition from Idle Mode to CELL_DCH:	X	
0.1.2.17	Success (start of E-DCH transmission)	^	
8.1.2.18	RRC Connection Establishment using the default configuration for HS-DSCH / E-DCH signalling bearers	Х	
8.2.1.36a	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH using F-	Х	
0.2000	DPCH: Success (hard handover to another frequency, start of E-DCH	, ,	
	transmission, F-DPCH configured)		
8.2.1.35	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH:	Х	
	Success (start of E-DCH transmission)		
8.2.1.36	Radio Bearer Establishment for transition from CELL_DCH to CELL_DCH:	Х	
	Success (hard handover to another frequency, start of E-DCH transmission)		
8.2.2.44	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (With active E-DCH transmission)	Χ	
8.2.2.44a	Radio Bearer Reconfiguration from CELL_DCH to CELL_DCH: Success (With active E-DCH transmission, F-DPCH configured)	Х	
8.2.2.45	Radio Bearer Reconfiguration for transition from CELL_FACH to CELL_DCH and	X	
	CELL_DCH to CELL_FACH: Success (start and stop of E-DCH transmission)		
8.2.2.46	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (hard handover to another frequency, start and stop of E-DCH	Х	
8.2.2.47	transmission) Radio Bearer Reconfiguration for transition from CELL_FACH to CELL_DCH and	Х	
0.2.2.47	CELL_DCH to CELL_FACH: Success (frequency modification, start and stop of E-DCH transmission)	^	
8.2.2.47a	Radio Bearer Reconfiguration for transition from CELL_FACH to CELL_DCH and	Х	
0.2.2	CELL_DCH to CELL_FACH: Success (frequency modification, start and stop of E-	, ,	
	DCH transmission, F-DPCH Configured)		
8.2.2.49	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_PCH:	Χ	
	Success (stop of E-DCH transmission)		
8.2.3.36	Radio Bearer Release for transition from CELL_DCH to CELL_DCH: Success	X	
	(frequency modification, stop of E-DCH transmission)		
8.2.2.48	Radio Bearer Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Start and stop of E-DCH transmission)	Х	
8.2.6.50	Physical Channel Reconfiguration for transition from CELL_DCH to URA_PCH: Success (frequency modification, stop of E-DCH transmission)	Х	
8.2.6.51	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Success (serving E-DCH cell change)	Х	
8.2.6.52	Physical channel reconfiguration for transition from CELL_DCH to CELL_DCH: Success (Timing re-initialized hard handover to another frequency, Serving E-DCH coll change, compressed mode)	Х	
	cell change, compressed mode)		

8.2.6.54	Physical Channel Reconfiguration for transition from CELL_DCH to CELL_DCH: Failure (Timing re-initialized hard handover, Serving E-DCH cell change, physical channel failure and reversion to old channel)	Х	
8.3.1.41	Cell Update: Transition from URA_PCH to CELL_DCH: Success (start of E-DCH transmission)	Х	
8.3.1.42	Cell Update: Transition from CELL_PCH to CELL_DCH: Success (frequency modification, start of E-DCH transmission)	Х	
8.3.1.42a	Cell Update: Transition from CELL_PCH to CELL_DCH: Success (frequency modification, start of E-DCH transmission, F-DPCH Configured)	Х	
8.3.1.43	Cell Update: Radio Link Failure, with active E-DCH transmission	Χ	
8.3.3.4	UTRAN Mobility Information: Shared Network	Χ	
8.3.4.10	Active set update in soft handover: Radio Link addition and serving HS-DSCH / E-DCH cell change	Х	
8.3.7.1a	Inter system handover from UTRAN/To GSM/Speech/Success with A5/3 ciphering	Χ	
8.3.11.14	Inter-RAT Cell Change Order from UTRAN to GPRS/CELL_DCH/Success (stop of E-DCH transmission)	Х	
8.4.1.49	Measurement Control and Report: Intra-frequency measurement for event 1J	Χ	
9.4.3.6	Location updating /abnormal cases / CS domain is changed from barred to unbarred because of domain specific access control	Х	
9.5.9	MM connection / abnormal cases / CS domain barred because of domain specific access control	Х	
12.2.1.12	PS attach / abnormal cases / access barred due to domain specific access restriction for PS domain	Х	
12.4.2.11	Combined routing area updating / abnormal cases / access barred due to domain specific access restriction for CS domain	Χ	
12.4.2.12	Combined routing area updating / abnormal cases / access barred due to domain specific access restriction for PS domain	Х	
12.9.15	Service Request / abnormal cases / access barred due to domain specific access restriction for PS domain	Х	
14.7.1	Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH on DCH	Х	
14.7.2	Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH	Х	
14.7.3	Streaming or interactive or background / UL: [max bit rate depending on UE	Х	
	category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH	^	
14.7.4	Conversational / speech / UL:12.2 DL:12.2 kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	Х	
14.7.5	Streaming or interative or background / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category and TTI] DL:3.4 kbps SRBs for DCCH on E-DCH and DL DCH	Х	
14.7.6	Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE category] and TTI] DL: [max bit rate depending on UE category] SRBs for DCCH on E-DCH and HS-DSCH	X	
14.7.7	Conversational / unknown or speech / UL:[max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] kbps / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + Streaming or Interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:[max bit rate depending on UE cat	X	
14.7.8	Conversational / speech / UL:(12.65 8.85 6.6) DL:(12.65 8.85 6.6) kbps / CS RAB + Streaming or interactive or background / UL: [max bit rate depending on UE category and TTI] DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH + DL:0.15 kbps SRB#5 for DCCH	Х	

A.13.1 Void

A.13.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (HSU_ENHv710.MP) which accompanies the present document.

A.14 MBMS ATS

The approved HSU_ENH test cases are listed. An 'X' in columns FDD or LCR TDD indicates the test case approved for the relevant ATS.

Table A.14: MBMS and Rel-6 enhancement TTCN test cases

Test case	Description	FDD	LCR_	TDD
7.2.4.2	MTCH duplicate avoidance and reordering / MBMS Broadcast Service	Χ		
7.2.4.3	MCCH Out Of Sequence Delivery handling / MBMS Broadcast Service	Χ		
8.5.1.11	MBMS PTP Session Start at MCCH Notification in Idle Mode / MBMS Selected Service	Х		
8.5.1.12	MBMS PTP Session Start at MCCH Notification in URA_PCH / MBMS Selected Service	Х		
8.5.1.13	MBMS PTP Session Start at MCCH Notification in CELL_FACH / MBMS Selected Service	Х		
8.5.1.2	MBMS PTP Session Start at MCCH Notification in CELL_PCH / MBMS Selected Service	Х		
8.5.1.3	MBMS PTM Session Start at MCCH Acquisition in CELL_FACH state / MBMS Broadcast Service	Х		
8.5.1.4	4 MBMS PTM Session Start at MCCH Notification in CELL_DCH state / MBMS Broadcast Service			
8.5.1.5	MBMS PTM Session Start at MCCH Acquisition in CELL_DCH (for a non-MBMS service) when entering into an MBMS cell (UE capable of MBMS p-t-m reception in CELL_DCH) / MBMS Broadcast Service	Х		
8.5.1.9	MBMS PTM Session Start at MCCH Notification in Idle Mode / MBMS Broadcast Service	Х		
8.5.2.2	MBMS PTM Session Reconfiguration – Transfer Mode Change to PTP / MBMS Selected Service	Х		
8.5.2.3	MBMS PTP Session Reconfiguration - Transfer mode change to PTM / MBMS Selected Service	Х		
8.5.2.4	MBMS PTM Session Reconfiguration – MTCH data rate change / MBMS Broadcast Service	Х		
8.5.3.1	MBMS Session Start (Frequency Layer Convergence)/Session Stop (Frequency Layer Dispersion) in Idle mode / MBMS Selected Service			
8.5.3.2	MBMS Session Start (Frequency Layer Convergence)/Session Stop (Frequency Layer Dispersion) in CELL_PCH / MBMS Broadcast Service	Х		
8.5.3.3	MBMS Session Start (Frequency Layer Convergence)/Session Stop (Frequency Layer Dispersion) in CELL_FACH / MBMS Broadcast Service	Х		
8.5.4.1	Transmission of the MBMS Selected Services Information when entering RRC connected mode and CELL_DCH state / MBMS Selected Service	Х		
8.5.4.2	Modification of the MBMS Selected Services list whilst in URA_PCH & Cell_FACH / MBMS Selected Service			
8.5.4.3	Testing of the MBMS Selected Services indication from the network whilst in CELL_DCH / MBMS Selected Service	Х		
8.5.5.1	MBMS Counting in Idle Mode / MBMS Selected Service	Χ		
8.5.5.2	MBMS Counting in CELL_FACH / MBMS Selected Service	Х		
8.5.5.3	MBMS No Counting in CELL_DCH / MBMS Selected Service	Х		
8.5.5.4	MBMS Counting in CELL_PCH / MBMS Selected Service	Х		
8.5.5.7	RRC Connection establishment for MBMS Counting :Success after T318 Timeout/ MBMS Selected Service	Х		
8.5.5.8	RRC Connection establishment for MBMS Counting :Success after MAC Layer Failure Indication/ MBMS Selected Service	Х		
8.5.6.1	MBMS Controlling Cell Change - Idle mode - Frequency Layer Convergence – HCS Not Used / MBMS Selected Service	Х		
11.8.2	MBMS Service Request procedure collision with Routing Area Update/ MBMS Selected Service	Х		
12.9.16	MBMS SERVICE REQUEST / counting / MBMS Selected Service	Χ		
12.9.17	MBMS SERVICE REQUEST / point to point RBs / MBMS Selected Service	X		
14.4.5	64.8kbps RB for MTCH with 80 ms TTI / MBMS Broadcast Service	X		
14.4.6	129.6 kbps RB for MTCH with 80 ms TTI / MBMS Broadcast Service	X	 	
14.4.7	259.2 kbps RB for MTCH with 40 ms TTI / MBMS Broadcast Service	X	\vdash	
14.6.9	Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / MBMS Selected Service	X		
14.6.10	Streaming MBMS PTP / unknown / UL:16 DL: [max bit rate depending on UE category] kbps / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + Interactive or background / UL:64 DL: [max bit rate depending on UE category] / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / MBMS Selected Service	Х		

A.14.2 The TTCN Machine Processable form (TTCN.MP)

The TTCN.MP representation corresponding to the corresponding FDD or LCR_TDD ATS is contained in an ASCII file (HSU_ENHv710.MP) which accompanies the present document.

Annex B (normative): Partial IXIT proforma

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPPgrant that users of the present document may freely reproduce the partial IXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed partial IXIT.

B.0 Introduction

This partial IXIT proforma contained in the present document is provided for completion, when the related Abstract Test Suite is to be used against the Implementation Under Test (IUT).

Text in *italics* is comments for guidance for the production of a IXIT, and is not to be included in the actual IXIT.

The completed partial IXIT will normally be used in conjunction with the completed ICS, as it adds precision to the information provided by the ICS.

B.1 Parameter values

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_AuthAMF	Authentication Management Field (16 bits). The value shall be different from '1111 1111 1111 1111 (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 [3] clause 8.1.2)	INTEGER	127	
px_AuthRAND	Random Challenge (128 bits)	BITSTRING	'0101010101' B	
px_CipherAlg	Cipher algorithm.	B3	Default value: (GEA/1) '001'B	
px_CipheringOnOff	Security mode - TRUE if ciphering is applicable	BOOLEAN	TRUE	
px_CN_DomainTested	CN domain to be tested. This parameter is used in test cases that handle both PS and CS domains.	CN_DomainI dentity	ps_domain	
px_DL_MaxCC_TB_bits	Maximum sum of number of bits of all convolutionally coded transport blocks being received at an arbitrary time instant.	MaxNoBits	b163840	

Parameter name	Description	Туре	Default value	Supported value
px_DL_MaxCCTrCH	Maximum number of Simultaneous CCTrCH for downlink	MaxSimultan eousCCTrCH _Count	8	
px_DL_MaxTB_bits	Maximum sum of number of bits of all transport blocks being received at an arbitrary time instant.	MaxNoBits	b163840	
px_DL_MaxTF	Maximum number of TF for downlink	MaxNumber OfTF	tf1024	
px_DL_MaxTFS	Maximum number of TFC in the TFCS for downlink	MaxNumber OfTFC_DL	tfc1024	
px_DL_MaxTrCHs	Maximum number of simultaneous transport channels for downlink.	MaxSimultan eousTransCh sDL	e32	
px_DL_MaxTTI_TB	Maximum total number of transport blocks received within TTIs that end within the same 10 ms interval.	MaxTranspor tBlocksDL	tb512	
px_FRESH	Value for FRESH	Fresh	See note 1	
px_FDD_OperationBand	Applicable for FDD The operation band under test as defined in 34.108 clause 5.1.1.	INTEGER	1, see note 3	px_UARFCN_D_ Mid, px_UARFCN_D_L ow and px_UARFCN_D_ High shall take the values according to the value of px_FDD_Operatio nBand.
px_IMSI_Def	Default IMSI value	HEXSTRING	'0010101234560 63'H	
px_IP_Version	IP version under test	IP_VersionTy	IPv4	
px_JapanMCC	Japan MCC to be used for Band VI	HEXSTRING	'442'H	
px_PriScrmCode	Applicable for FDD Primary scrambling code	PrimaryScra mblingCode	100	
px_MaxAM_EntityNumber RLC_Cap	Maximum AM Entity Number for RLC.	MaximumAM _EntityNumb erRLC_Cap	am30	
px_MaxNoDPDCH_BitsTra nsmitted	Part of UL_PhysChCapabilityFDD	MaxNoDPDC H_BitsTrans mitted	b57600	
px_MaxNoDPCH_PDSCH_ Codes	Part of DL_PhysChCapabilityFDD. INTEGER (18).	INTEGER	8	
px_MaxNoPhysChBitsRec eived	Part of DL_PhysChCapabilityFDD.	MaxNoPhys ChBitsReceiv ed	b76800	
px_MaxRLC_WindowSize	Maximum RLC window size.	MaximumRL C_WindowSi ze	mws4095	
px_MS_ClsmkESIND	default Early Sending Indication	B1	'0'B	
px_MS_ClsmkRevLvl	default Revision Level	B2 OCTETSTBI	'10'B	
px_PTMSI_Def	default PTMSI	OCTETSTRI NG	'C2345678'O	
px_PTMSI_SigDef	default PTMSI signature (3 octets, 3GPP 24.008 [9], clause 10.5.5.8).	OCTETSTRI NG	'AB1234'O	
px_RAT	Applicable for FDD 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	ps_Interactive	

Parameter name	Description	Туре	Default value	Supported value
px_SRNC_Id	SRNC Id	SRNC_Identi ty	'0000 0000 0001'B	
av CDNTI	C DNIT!		0000 0000 0000	
px_SRNTI	S RNTI	S_RNTI	0000 0001'B	
px_TCellA	TCell value for cell A. Except for the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	256	
px_TCellB	TCell value for cell B. Except for the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	512	
px_TCellC	TCell value for cell C. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	1536	
px_TCellD	TCell value for cell D. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	321	
px_TCellE	TCell value for cell E. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	833	
px_TCellF	TCell value for cell F. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	6577	
px_TCellG	TCell value for cell G. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	7253	
px_TCellH	TCell value for cell H. Except the first created cell, the value 0 applied in ts_SS_CellCfg.	Tcell	4351	
px_TimerDequeuePCO	Additional time for dequeueing PCO	INTEGER	5000 (ms)	
px_TMSI_Def	Default TMSI	OCTETSTRI NG	'12345678'O	
px_TotalRLC_AM_BufferSi ze	Total RLC AM buffer size.	TotalRLC_A M_BufferSize	NA	
px_UARFCN_D_Mid	Applicable for FDD Mid Range downlink UARFCN value	INTEGER	10700	
px_UARFCN_D_Low	Applicable for FDD Low Range downlink UARFCN value	INTEGER	10563	
px_UARFCN_D_High	Applicable for FDD High Range downlink UARFCN value	INTEGER	10837	
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_UE_PositioningNetwork AssistedGPS_Sup	UE positioning capability: supports the network assisted GPS	pported	networkBased	
px_UE_PowerClass	UE_PowerClass value.	UE_PowerCl ass	1	
px_UL_MaxCC_TB_bits	Maximum sum of number of bits of all convolutionally coded transport blocks being transmitted at an arbitrary time instant.	MaxNoBits	b163840	
px_UL_MaxTB_bits	Maximum sum of number of bits of all transport blocks being transmitted at an arbitrary time instant.	MaxNoBits	b163840	
px_UL_MaxTF	Maximum number of TF for uplink.	MaxNumber OfTF	tf1024	
px_UL_MaxTFS	Maximum number of TFC in the TFCS for uplink.	MaxNumber OfTFC_DL	tfc1024	
px_UL_MaxTrCHs	Maximum number of simultaneous transport channels for uplink.	MaxSimultan eousTransCh sUL	e32	
px_UL_MaxTTI_TB	Maximum total number of transport blocks transmitted within TTIs that start at the same time.	MaxTranspor tBlocksUL	tb512	

Para	meter name	Description	Туре	Default value	Supported value
px_UL_S	cramblingCode	Applicable for FDD UL scrambling code value to be used by UE.	UL_Scrambli ngCode	0	
NOTE 1:	No default value	can be proposed (Manufacturer defined	value).		
NOTE 2:	No default value	can be proposed, because not enough i	nformation is av	ailable in 3GPP T	S 34.109 [4]
	clause 8.1.2.				
NOTE 3:	NOTE 3: This value shall be set in synchronization with the values that are being set for the 3 other pixits viz:				
	px UARECN D High px UARECN D Mid px UARECN D Low				

B.1.2 L3M test suite parameters declarations

The following parameters are commonly used in the RRC and NAS ATSs.

Table B.2: L3M PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_3G324M_MmediaEnabl e	For a Multimedia UE: set to TRUE if a multimedia call is enabled; set to FALSE if a speech call is enabled.	BOOLEAN	TRUE	
px_BcapDataCompression	Data compression supported (used in the Bearer Capability)	B1	'0'B	
px_BcapFNUR	Fixed Network User rate supported: '00001'B: FNUR 9.6 kbit/s '00010'B: FNUR 14.4 kbit/s '00011'B: FNUR 19.2 kbit/s '00100'B: FNUR 28.8 kbit/s '00101'B: FNUR 38.4 kbit/s '00110'B: FNUR 48.0 kbit/s '00111'B: FNUR 56.0 kbit/s '01000'B: FNUR 64.0 kbit/s '01001'B: FNUR 33.6 kbit/s '01010'B: FNUR 32.0 kbit/s	B5	'00001'B	
px_BcapITC	Information transfer capability supported (used for the generation of the Bearer Capability) 0 - UDI 1 - RDI 2 - 31 kHz Audio 3 - Other	ItcInt	2	
px_BcapModemType	Modem type supported (used in the Bearer Capability)	B5	'00110'B	
px_BcapNumberDataBits	Number of data bits supported (used in the Bearer Capability)	B1	'1'B	
px_BcapNumberStopBits	Number of Stops bits supported (used in the Bearer Capability)	B1	'1'B	
px_BcapOtherModemType	Other modem type supported (used in the Bearer Capability)	B2	'10'B	
px_BcapParity	Parity supported (used in the Bearer Capability)	В3	'011'B	
px_BcapSACP	Signalling access protocol supported (used in the Bearer Capability)	В3	'001'B	
px_BcapSyncAsync	Synchronous '0'B or Asynchronous '1'B mode supported by IUT	B1	'1'B	
px_BcapUeFlowControl	UE flow control. 0-outband, 1-inband, 2-no flow control. 3- X.25 4- X.75 Default: 0, outband flow control	FlowControl	0	
px_CC_CallDiallingDigits	Dialling digits used to initiate a CC MO call (used with the AT dial D command).	IA5String	"0123456902"	
px_CC_Serv	Service selected for Mobile Originated	Services	"31kHz"	

Parameter name	Description	Туре	Default value	Supported value
px_3G324M_MmediaEnabl e	For a Multimedia UE: set to TRUE if a multimedia call is enabled; set to FALSE if a speech call is enabled.	BOOLEAN	TRUE	
	calls and Mobile Terminated calls. The possible values are ("Telephony", "EmergencyCall", "31kHz", "V110", "V120", "PIAFS", "FTM", "X31", "BTM", "3G324M_Call", "Alternate Speech/Facsimile", "3G324M_SpeechPreferred")			
px_DeltaSS_DelayTime	Tdelta value (refer to 34.108 clause 4.2.3) in ms.	INTEGER	55ms	
px_EmergencyCallNumber	Emergency Number used by UE to initiate an emergency call	EmergencyN umber	"112"	
px_IMEI_Def	Default IMEI value	HEXSTRING	See note 1	
px_IMEISV_Def	Default IMEISV value	HEXSTRING	See note 1	
px_IMSI_Diff	Different IMSI from the IMSI stored in the USIM	HEXSTRING	'0010106543210 63'H	
px_SupportOpModeC	TRUE if UE supports operation mode C, i.e. UE offers PS services only (see 3GPP 23.060 clause 4.1 and 3GPP 24.008)	BOOLEAN	TRUE	
px_NwOrgPDP_Support	This indicates if the UE implementation supports network originated PDP Context. TRUE indicates, supported FALSE indicate, not supported	BOOLEAN	FALSE	
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_AddrInfoFAC H	A string parameter that identifies the MT in the address space applicable to the PDP for FACH.	IA5String	"200.1.1.90"	
px_PTMSI_2	Second PTMSI used for testing.	OCTETSTRI NG	'C9876543'O	
px_PTMSI_Sig2	Second PTMSI signature used for testing.	OCTETSTRI NG	'AB1234'O	
px_TMSI_2	Second TMSI value for testing	OCTETSTRI NG	'09876543'O	
px_SMS_IndexOffset	SMS index offset for the numbering of short messages, value range: (0,1)	INTEGER	0	
NOTE 1: No default value	can be proposed (Manufacturer defined	value).		

B.1.3 NAS test suite parameters declarations

The following parameters are commonly used in the NAS ATS.

Table B.3: NAS PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_AuthRAND_2	A second Random Challenge (128 bits)	BITSTRING	'101010110'B	
px_AutocallingBlacklistNum ber	Number of B-party numbers that can be stored in the list of blacklisted numbers	INTEGER	20	
px_AutocallingCause1or2	Cause value of category 1 or 2 to be used in TC_17_1_3	INTEGER	18	
px_AutocallingNumber	Called number to be used for auto calling	IA5String	"0613454120"	
px_AutocallingRepeatCat1o r2	Number of repeat attempt done for the category 1 or 2 to be used in TC_17_1_3	INTEGER	10	
px_CC_ServNotSupp	Not supported service selected for Mobile Originated calls and Mobile Terminated calls. The possible values are ("Telephony", "EmergencyCall", "31kHz", "V110", "V120", "PIAFS", "FTM", "X31", "BTM", "MmediaCall")	Services	"ВТМ"	
px_DTMF_BasicCharSet	TRUE if DMTF Chars 0-9, *, # supported	BOOLEAN	TRUE	
px_DTMF_OtherCharSet	TRUE if DMTF Chars A, B, C, D supported	BOOLEAN	TRUE	
px_DTMF_ToneInd	TRUE if UE support DTMF tone indication	BOOLEAN	TRUE	
px_PTMSI_Sig3	Second PTMSI signature used for testing	OCTETSTRI NG	'AB1239'O	
px_UuInfo	User-user information for TC 10_3	OCTETSTRI NG	'01020304'O	
px_Uupd	User-user protocol discriminator for TC 10_3	B8	'00000100'B	
px_VTS_AT_CommandSup p	TRUE if the AT command +VTS is supported	BOOLEAN	TRUE	

B.1.4 SMS test suite parameters declarations

These parameters are used in the SMS ATS.

Table B.4: SMS PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_BMC_CB_RepPeriod01	CB repetition period for CB message 1	INTEGER	2	
px_BMC_CB_RepPeriod02	CB repetition period for CB message 2	INTEGER	2	
px_BMC_NoOfBC_Req01	No of broadcasts requested for CB message 1	INTEGER	2	
px_BMC_NoOfBC_Req02	No of broadcasts requested for CB message 2	INTEGER	2	
px_MaxCP_DataRetx	max. number of CP data retransmissions for SMS	INTEGER	3	
px_SMS_CB_Data01	Contents of the first Cell Broadcast Message sent will be converted to an OCTETSTRING	IA5String	"First Cell Broadcast Message"	
px_SMS_CB_Data02	Contents of the second Cell Broadcast Message sent will be converted to an OCTETSTRING	IA5String	"Second Cell Broadcast Message"	
px_SMS_CB_Msgld02	Message Id to be used for the second Cell Broadcast Message sent	HEXSTRING [4]	"0002"H	
px_SMS_CB_Store	TRUE if Broadcast Messages are kept in BM storage	BOOLEAN	TRUE	
px_SMS_MsgFrmt	SMS Message Format <mode> of TS 27.005 cl. 3.2.3</mode>	IA5String	"0"	
px_SMS_PrefMem1	SMS Preferred Memory 1 <mem1> of TS 27.005 cl. 3.1</mem1>	IA5String	"SM"	
px_SMS_PrefMem2	SMS Preferred Memory 2 <mem2> of TS 27.005 cl. 3.1</mem2>	IA5String	"SM"	
px_SMS_PrefMem3	SMS Preferred Memory 3 <mem3> of TS 27.005 cl. 3.1</mem3>	IA5String	"MT"	
px_SMS_PrefMemCB1	SMS Preferred CB Memory 1 <mem1> of TS 27.005 cl. 3.1</mem1>	IA5String	'BM"	
px_SMS_PrefMemCB2	SMS Preferred CB Memory 2 <mem2> of TS 27.005 cl. 3.1</mem2>	IA5String	"BM"	
px_SMS_PrefMemCB3	SMS Preferred CB Memory 3 <mem3> of TS 27.005 cl. 3.1</mem3>	IA5String	"BM"	
px_SMS_Service	SMS Service <service> of TS 27.005 cl. 3.2.1</service>	IA5String	"0"	
px_TC1M	Value for timer TC1M, to be declared by the manufacturer	INTEGER	10000	

B.1.5 RRC_M test suite parameters declarations

These parameters are used in the RRC and RAB ATS.

Table B.5: RRC and RAB PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_DL_MaxTC_TB_bits	Maximum sum of number of bits of all turbo coded transport blocks being received at an arbitrary time instant.	MaxNoBits	b163840	
px_MaxHcContextSpace	MaxHcContextSpace if RFC 2507 [30] is supported.	MaxHcContext Space	by1024	
px_MaxNoSCCPCH_RL	Part of SimultaneousSCCPCH_DPCH_Rec eption.	MaxNoSCCPC H_RL	rl1	
px_PrimaryBand	The primary operation band under test, as defined in 34.108 clause 5.1.1. Value 1 means Band 1, 2 means Band 2, 3 means Band 3, 6 means Band 6.	INTEGER	1	This pixit shall be set in synchronization with the values that are being set to other Pixit: px_UARFCN_D_Mid
px_SecondaryBand	The secondary operation band under test, as defined in 34.108 clause 5.1.1. Value 1 means Band 1, 2 means Band 2, 3 means Band 3, 6 means Band 6.	INTEGER	8	
px_SMS_CB_Msgld01	the operator shall define the CB Message ID for the CB data1 used for transmitting this CB data, different to CB-Data 2 IXIT	HEXSTRING[4]	'0001'H	
px_UL_MaxTC_TB_bits	Maximum sum of number of bits of all turbo coded transport blocks being transmitted at an arbitrary time instant.	MaxNoBits	b163840	

B.1.6 PDCP test suite parameters declarations

These parameters are used in the PDCP ATS.

Table B.6: PDCP PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_PDCP_TcpIpCompressedTcpN onDeltaPacket01	IP header compressed packet type (PID=3) of px PDCP_TcplpUncompressedPacket01	IP_Packet	0000 0000 0000 0a00 0000 0050 1000 0026 3400 006a 6e6e 206a 6e6e 206a 6e6e	
px_PDCP_TcpIpCompressedTcpN onDeltaPacket02	IP header compressed packet type (PID=3) of px_PDCP_TcplpUncompressedPacket02	IP_Packet	"Test_PDCP_TC PIP_Packet2_PI D_Type3"	
px_PDCP_TcpIpCompressedTcpP acket01	IP header compressed packet type (PID=2) of px_PDCP_TcplpUncompressedPacket01	IP_Packet	0028 2634 0a00 0000 6a6e 6e20 6a6e 6e	
px_PDCP_TcpIpCompressedTcpP acket02	IP header compressed packet type (PID=2) of px PDCP TcplpUncompre ssedPacket02	IP_Packet	"Test_PDCP_TC PIP_Packet2_PI D_Type2"	

Parameter name	Description	Туре	Default value	Supported value
px_PDCP_TcplpFullHeaderPacket 01	IP header compressed packet type (PID=1) of px PDCP_TcplpUncompressedPacket01	IP_Packet	c500 0000 0000 0000 4006 7ac6 0000 0000 0000 0000 0000 0000 0000 5010 0000 263e 0000 6a6e 6e20 6a6e 6e	
px_PDCP_TcplpFullHeaderPacket 02	IP header compressed packet type (PID=1) of px PDCP TcplpUncompre ssedPacket02	IP_Packet	"Test_PDCP_TC PIP_Packet2_PI D_Type1"	
px_PDCP_TcplpUncompressedPa cket01	uncompressed TCP/IP Packet01	IP_Packet	4500 0033 0000 0000 4006 7ac6 0000 0000 0000 0000 0000 0000 0000 5010 0000 263e 0000 6a6e 6e20 6a6e 6e	
px_PDCP_TcpIpUncompressedPa cket02	uncompressed TCP/IP Packet02	IP_Packet	"Test_PDCP_TC PIP_Packet2"	
px_PDCP_UdplpCompressedTcp NonTcpPacket01	IP header compressed packet type (PID=4) of px_PDCP_UdpIpUncompressedPacket01	IP_Packet	0001 0000 763c 6a6e 6e20 6a6e 6e20 6a6e 6e	
px_PDCP_UdplpCompressedTcp NonTcpPacket02	IP header compressed packet type (PID=4) of px_PDCP_UdpIpUncompressedPacket02	IP_Packet	"Test_PDCP_U DPIP_Packet2_ PID_Type4"	
px_PDCP_UdplpFullHeaderPacket 01	px PDCP UdplpUncompre ssedPacket01	IP_Packet	8500 0100 0000 0000 4011 7ac7 0000 0000 0000 0000 0000 0000 0013 763c 6a6e 6e20 6a6e 6e20 6a6e 6e	
px_PDCP_UdplpFullHeaderPacket 02	IP header compressed packet type (PID=1) of px PDCP UdpIpUncompre ssedPacket02	IP_Packet	"Test_PDCP_U DPIP_Packet2_ PID_Type1"	
px_PDCP_UdplpUncompressedPa cket01		IP_Packet	4500 0027 0000 0000 4011 7ac7 0000 0000 0000 0000 0000 0000 0013 763c 6a6e 6e20 6a6e 6e20 6a6e 6e	
px_PDCP_UdplpUncompressedPacket02	uncompressed UDP/IP Packet02	IP_Packet	"Test_PDCP_U DPIP_Packet2"	

B.1.7 BMC test suite parameters declarations

These parameters are used in the BMC ATS.

Table B.7: BMC PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_CB_Data1	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	IA5String [11246]	"CB Data1"	
px_CB_Data2	Data to be sent in TC 7.4.2.1	IA5String [11246]	"CB Data2"	
px_SMS_CB_Msgld01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	HEXSTRING[4]	'0000'H	
px_SMS_CB_Msgld02	Data to be sent in TC 7.4.2.1	HEXSTRING[4]	'0000'H	
px_gS01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	BITSTRING[2]	"Test_gS1"	
px_ggS02	Data to be sent in TC 7.4.2.1	BITSTRING[2]	"Test_gS2"	
px_MsgCode01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	BITSTRING[10]	"Test_msgCode01"	
px_MsgCode02	Data to be sent in TC 7.4.2.1	BITSTRING[10]	"Test_msgCode02"	
px_UpdateNumber01	Data to be sent for each PDCP test, except TC 7.4.1.4, 7.4.1.5 and 7.4.1.6	BITSTRING[4]	"Test_ updateNumber01"	
px_UpdateNumber02	Data to be sent in TC 7.4.2.1	BITSTRING[4]	"Test_ updateNumber02"	

B.1.8 RRC test suite parameters declarations

These parameters are used in the RRC ATS.

Table B.8: RRC PIXIT

Parameter name	Description	Туре	Default value	Supported value
-	-	-	-	-

B.1.9 RAB test suite parameters declarations

These parameters are used in the RAB ATS.

Table B.9: RAB PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
px_CB_Data1	the operator shall define CBS data as IA5String together with the CB message ID used for transmitting this CB data, which is indicated by the UE after reception in a clear way according to the capabilities stored on the SIM. Furthermore, the operator shall describe the indication on the UE side (e.g. certain CBS traffic information)	IA5String_BMC	Delauit Value	the CB data range is 11246 Octets which refers to a IA5String of 11246
px_DSCH_RNTI	DSCH RNTI	DSCH_RNTI	'0000 0000 0000 0010'B	
px_gS01	used in the Serial No. of the CB_Data01 given as PIXIT, which differentiates between CBS messages from the same source and type		'00'B	
px_MsgCode01	used in the Serial No. of the CB_Data01 given as PIXIT, which is the Geographical Scope indicates the area over which the msg code is unique		'0000000000'B	
px_UpdateNumber01	used in the Serial No. of the CB_Data01 given as PIXIT, which indicates a change of the message content of the same CBS message		'0000'B	
px_PowerDSCH	transmission power level of DSCH	DL_TxPower		

B.1.10 RLC and MAC test suite parameters declarations

These parameters are used in the MAC ATS.

Table B.10: RLC & MAC PIXIT

Parameter Name	Description	Type	Default Value	Supported Value
px_NumOfSegInPagResOrServ	This Pixit is used in MAC	INTEGER	2	
Req	test cases 7.1.1.2, 7.1.1.3,			
	7.1.1.4, 7.1.1.5 and 7.1.1.8			
	This indicates the number			
	of RLC segments the			
	Paging Response (CS			
	Domain) or Service			
	Request (PS domain) will			
	be segmented in.			
px_RLC_SDU_buffering	Is used in RLC TC			
	7.2.3.13, indicating the way	BOOLEAN(TRU		
	to handle RLC SDU data	E for buffering,		
	for UL transmission when	FALSE for		
	the transmission window is	discard)		
	full			

B.1.11 Multi RAT test suite parameters declarations

These parameters are used in the MultiRAT ATS.

Table B.11: MultiRAT PIXIT

Parameter name	Description	Туре	Default value	Supported value
px_GSM_BandUnder	indicates which band	INTEGER		1 -> GSM450;
Test	is under test			2 -> GSM480;
				3 -> GSM750;
				4 -> GSM850;
				5 -> GSM-P-900;
				6-> GSM-E-900;
				7-> DCS1800;
				8 -> PCS1900;
				9 -> 450 & 900
				MultiBand test;
				10 -> 450 & 1800
				MultiBand test;
				11 -> 480 & 900
				MultiBand test;
				12 -> 480 & 1800
				MultiBand test;
				13 -> 900 & 1800
				MultiBand test;
				14-> GSM710;
				15->T-GSM810;
px_GSM_CipheringO	GSM Ciphering to be	B1	1	
nOff	started or not			
px_GSM_CipherAlg	GSM Cipher	B3_CipherAlg	(A5/1) '000'B	
	algorithm. Allowed			
	values are:			
	<u>'000'B(A5/1),</u>			
	<u>'010'B(A5/3)</u>			
px_CipherKey	Cipher key (64 bits)	B64	'01011110010010101	
			011001101011000100	
			100010011011101011	
			10100101010'B	
px_MS_TXPWR_MAX		B5	'01010'B	
_CCH	CH			
px_RXLEV_ACCESS	minimum received	B6	'000000'B	

Parameter name	Description	Type	Default value	Supported value
_MIN	signal level at MS			
px_SplitOnCCCH	split paging cycle on CCCH supported indication	B1	'0'B not supported	
px_TSC	Training sequence code for traffic channels	B3	'011'B	
px_PowerLevel	power level value for L1 header	B5		
px_TimingAdvance	Timing advance value for L1 header	B1	'0000000'B	

B.1.12 MMI questions

Table B.12 requests additional information needed for the execution of the MMI commands used in the ATSs, the column 'ATS' indicates in which ATS the question is used.

Table B.12: MMI questions

Required information for MMI question	ATS
	RRC, SMS, NAS,
Please switch the PLMN selection mode of the UE to automatic selection	RAB, HSD_ENH,
Flease Switch the Flivin Selection mode of the OL to automatic Selection	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please switch the PLMN selection mode of the UE to manual selection	RAB, HSD_ENH,
Thease switch the Felvin selection mode of the OE to manual selection	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please select the following PLMN manually: MCC = <p_mcc>, MNC = <p_mnc></p_mnc></p_mcc>	RAB HSD_ENH,
Flease select the following PLIVIN manually. NICC = $\langle p_{\perp} v CC\rangle$, $ v VC = \langle p_{\perp} v VC\rangle$	IR_U, AGPS,
	HSU_ENH
Please power off the UE	All ATSs
Please power on the UE	All ATSs
Please switch off the UE	All ATSs
Please switch on the UE	All ATSs
Please insert the USIM card into the UE	All ATSs
Please remove the USIM card into the UE	All ATSs
	RRC, SMS, NAS,
Places also also the title PTOLL is the south appropriate discussion and a significant	RAB, HSD_ENH,
Please check that the DTCH is through connected by generating a noise	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Configure UE for an MO Telephony call	RAB, HSD_ENH,
Configure OL for art wo releptions can	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Configure UE for an Emergency call	RAB, HSD_ENH,
Configure of for an emergency can	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Configure UE for an MT telephony call	RAB, HSD_ENH,
Configure of for all first telephony call	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please set UE in operation mode C (PS services only)	RAB, HSD_ENH,
r lease set of in operation mode of to services only)	IR_U, AGPS,
	HSU_ENH
	RRC, SMS, NAS,
Please set UE in operation mode A (to support simultaneous CS and PS services)	RAB, HSD_ENH,
Tiedoe oet ol in operation mode a (to oupport officialieous oo and fo services)	IR_U, AGPS,
	HSU_ENH
Please configure UE to use the following emergency number <pre><pre><pre><pre><pre>p_EmergencyNumber></pre></pre></pre></pre></pre>	RRC, SMS, NAS,

Required information for MMI question	ATS
	RAB, HSD_ENH,
	IR_U, A-GPS
Please initiate a non call related supplementary service which is supported by the UE	NAS
Please insert Test USIM programmed with Access Class: <p_accessclass></p_accessclass>	NAS
Please insert 2nd SIM card with short IMSI	NAS, SMS,
Flease Hisert 21th Silvi Card with Short livion	AGPS
Please initiate an autocalling call with the number: <p_autocallingnumber></p_autocallingnumber>	NAS
Please initiate an autocalling call with a number that will be put in the blacklisted list. The following number shall not be used: <p_autocallingnumber></p_autocallingnumber>	NAS
Please reset the autocalling list of blacklisted numbers	NAS
Please initiate a DTMF tone with the character <pre>p_Character> and the tone duration</pre>	NAS
<pre><pre><pre></pre></pre></pre>	
Please enable call refusal on the UE	NAS
Please check that the DTMF tone indication has been generated	NAS
Please insert another USIM card as required for test case tc_9_4_5_4_6. The PLMN selector	NAS
on the USIM card shall contain entries for PLMNs MCC='022'H, MNC='01F'H resp.	10.10
MCC='022'H, MNC='03F'H. The latter PLMN shall be ranked better than the first one	
Please trigger UE to initiate a Detach procedure for non-PS services only	NAS
Please check that the mobile indicates the reception of a message with message id:	SMS
<p_messageid> and message code: <p_messagecode></p_messagecode></p_messageid>	
Please check the length of the received Short Message: <p_lengthmessage> and the</p_lengthmessage>	SMS
contents of the received Short Message: <p_message></p_message>	
Please send an SMS COMMAND message containing a request to delete the previously	SMS
submitted Short Message	
Please send an SMS COMMAND message containing an enquiry about the previously	SMS
submitted Short Message	
Please check that NO recalled Short Message is displayed	SMS
Please check that the reception of a received Short Message is indicated	SMS
Please check that the Mobile does not indicate the reception of a new message with	SMS
message id: <p_messageid> and message code: <p_messagecode></p_messagecode></p_messageid>	
Please check that NO reception of a received Short Message of type 0 is indicated	SMS
Please insert the USIM card of type B into the UE	MAC
Please insert the USIM card, with information given in <p_testcase></p_testcase>	RRC, NAS, IR_U, HSU_ENH
Please check that the UE display the registered PLMN as PLMN <p_plmn></p_plmn>	RRC, HSU_ENH
Please insert the USIM card, with Type A EFACC	RRC
Please insert the USIM card, with Type B EFACC	RRC
Please trigger UE to send three SNDCP PDUs of 500 bytes each on SAPI 11	IR_G
Please trigger PDP Context Activation Type 2 in UE	IR_G
Please trigger MO-LR for position estimate	AGPS
Please trigger MO-LR for assistance data	AGPS
Please trigger MO-LR for transfer to 3rd party	AGPS
Please check that the UE displays the correct information about the LCS client	AGPS
Please accept the location request within 20 s	AGPS
Please deny the location request within 20 s	AGPS
Please do not reply to the location request	AGPS
Please check that the UE notifies the user of the location request	AGPS
If the UE does not support the RESET command defined in 34.109, please ensure that the UE has no assistance data stored before running this test case	AGPS
Please trigger UE to send 10 kbytes of data on SAPI 3	ID C
Please trigger UE to send 10 kbytes of data on SAPI 3 Please trigger UE to send 1 kbyte of data on SAPI 3	IR_G IR_G
Please check that in the manual PLMN list the UE display: <p_plmn_list></p_plmn_list>	HSU_ENH
Please check that III the manual PLININ list the OE display. <p_plinin_lists available<="" check="" displays="" network="" no="" or="" please="" service="" td="" that="" ue=""><td>HSU_ENH</td></p_plinin_lists>	HSU_ENH
I lease check that OE displays no service of no fletwork available	I IOU_EIN⊓

B.1.13 A-GPS test suite parameters declarations

These parameters are used in the A-GPS ATS.

Table B.13: A-GPS PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
px_GpsScenario	Pre-defined GPS scenario to be loaded by the upper tester in the Satellite Simulator. See 34.108, 10.7. Minimum value:0, Maximum value: 31	GpsScenarioType	0	
px_GeoInfo		IEST Geographical	9032B9D66360B 600323C3C0065 44	
px_LcsClientName	LCS Client name	IA5String	OPERATOR	
px_LcsClientAddressTOA	LCS Client external address TOA	B4	'1001'B	
px_LcsClientAddressNPI	LCS Client external address NPI	B4	'0001'B	
px_LcsClientAddressDigits	LCS Client external address Digits	IA5String	0123456	
px_ResetStoredInfo	Support of RESETUEPOSITIONINGSTO REDINFORMATION command as defined in 3GPP TS 34.109 cl. 6.10	BOOLEAN	TRUE	
px_UeLcsNotification	Value for UE LCS Notification timeout timer (in seconds)	INTEGER	20	

B.1.14 HSD_ENH test suite parameters declarations

These parameters are used in the HSD_ENH ATS.

Table B.14: HSD_ENH PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
px_GERANIu_RadioAccessCapa	MS GERAN lu mode Radio	BITSTRING		
bility	Access Capability	BITSTRING		
	Execute UL 128 KBPS RAB			
px_RAB_HS_Exec128_384Supp	HS test cases, when UE	BOOLEAN	TRUE	
	supports UL384			
	Set to TRUE if 384kbps is			
px_RAB_HS_Exec64_384Supp		BOOLEAN	TRUE	
	64kbps shall be executed			
	Execute UL 64 KBPS RAB HS			
px_RAB_HS_Exec64_128Supp	test cases, when UE supports	BOOLEAN	TRUE	
	UL128			

B.1.15 HSU_ENH test suite parameters declarations

These parameters are used in the HSU_ENH ATS.

Table B.15: HSU_ENH PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
I FDPCHSUpp	To execute Non-FDPCH test case when fully FDPCH is supported	BOOLEAN	TRUE	

B.1.16 HS_ENH test suite parameters declarations

These parameters are used in the HS_ENH ATS.

Table B.16: HS_ENH PIXIT

Parameter Name	Description	Туре	Default Value	Supported Value
px_CipherIntegrityAlg	If set to TRUE, the security algorithms UEA2/UIA2 are used. If set to FALSE, the security algorithms UEA1/UIA1 are used.	BOOLEAN	TRUE	

Annex C (informative): Additional information to IXIT

Notwithstanding the provisions of the copyright related to the text of the present document, The Organizational Partners of 3GPP grant that users of the present document may freely reproduce the IXIT proforma in this annex so that it can be used for its intended purposes and may further publish the completed IXIT.

Additional information may be provided when completing the IXIT questions listed in annex A.

C.1 Identification Summary

Table C.1 is completed by the test laboratory. The item "Contract References" is optional.

Table C.1: Identification Summary

IXIT Reference Number	
Test Laboratory Name	
Date of Issue	
Issued to (name of client)	
Contract References	

C.2 Abstract Test Suite Summary

In table C.2 the test laboratory provides the version number of the protocol specification and the version number of ATS which are used in the conformance testing.

Table C.2: ATS Summary

Protocol Specification	3GPP TS 25.331
Version of Protocol Specification	
Test Specification in prose	3GPP TS 34.123-1
Version of TSS & TP Specification	
ATS Specification	3GPP TS 34.123-3
Version of ATS Specification	
Abstract Test Method	Distributed Test Method

C.3 Test Laboratory

C.3.1 Test Laboratory Identification

The test laboratory provides the following information.

Table C.3: Test Laboratory Identification

Name of Test Laboratory	
Postal Address	
Office address	
e-mail address	
Telephone Number	
FAX Number	

C.3.2 Accreditation status of the test service

The test laboratory provides the following information.

Table C.4: Accreditation status of the test service

Accreditation status	
Accreditation Reference	

C.3.3 Manager of Test Laboratory

The test laboratory provides the information about the manager of test laboratory in table C.5.

Table C.5: Manager of Test Laboratory

Name of Manager of Test Laboratory	
e-mail address	
Telephone Number	
FAX Number	
E-mail Address	

C.3.4 Contact person of Test Laboratory

The test laboratory provides the information about the contact person of test laboratory in table C.6.

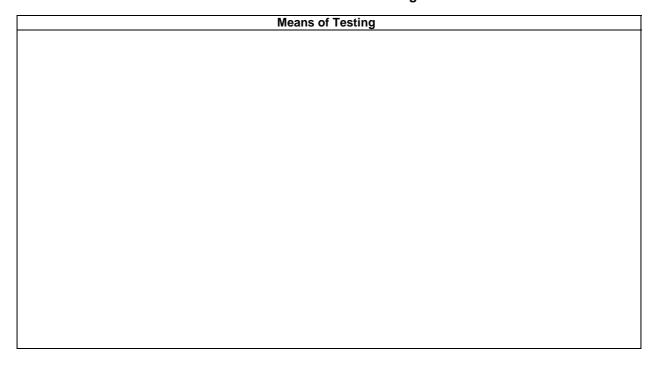
Table C.6: Contact person of Test Laboratory

Name of Contact of Test Laboratory	
e-mail address	
Telephone Number	
FAX Number	
E-mail Address	

C.3.5 Means of Testing

In table C.7, the test laboratory provides a statement of conformance of the Means Of Testing (MOT) to the reference standardized ATS, and identifies all restrictions for the test execution required by the MOT beyond those stated in the reference standardized ATS.

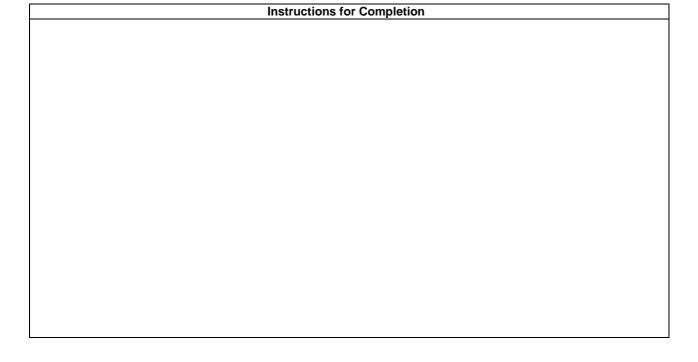
Table C.7: Means of Testing



C.3.6 Instructions for Completion

In table C.8, the test laboratory provides any specific instructions necessary for completion and return of the proforma from the client.

Table C.8: Instruction for Completion



C.4 Client

C.4.1 Client Identification

The client provides the identification in table C.9.

Table C.9: Client Identification

Name of Client	
Postal Address	
Office Address	
Telephone Number	
FAX Number	

C.4.2 Client Test Manager

In table C.10 the client provides information about the test manager.

Table C.10: Client Test Manager

Name of Client Test Manager	
Telephone Number	
FAX Number	
E-mail Address	

C.4.3 Client Contact person

In table C.11 the client provides information about the test contact person.

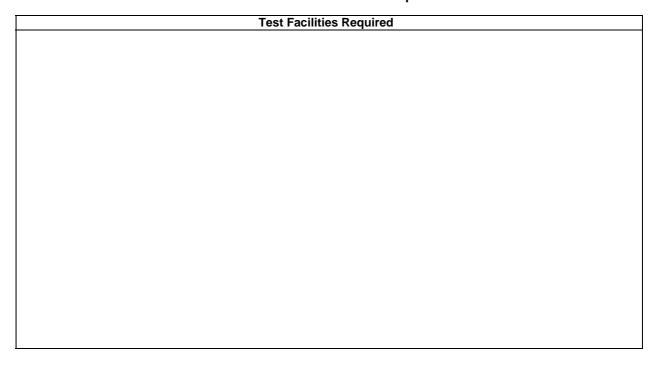
Table C.11: Client Contact person

Name of Client contact person	
Telephone Number	
FAX Number	
E-mail Address	

C.4.4 Test Facilities Required

In table C.12, the client records the particular facilities required for testing, if a range of facilities is provided by the test laboratory.

Table C.12: Test Facilities Required



C.5 System Under Test

C.5.1 SUT Information

The client provides information about the SUT in table C.13.

Table C.13: SUT Information

System Name	
System Version	
SCS Reference	
Machine Configuration	
Operating System Identification	
IUT Identification	
ICS Reference for the IUT	

C.5.2 Limitations of the SUT

In table C.14, the client provides information explaining if any of the abstract tests cannot be executed.

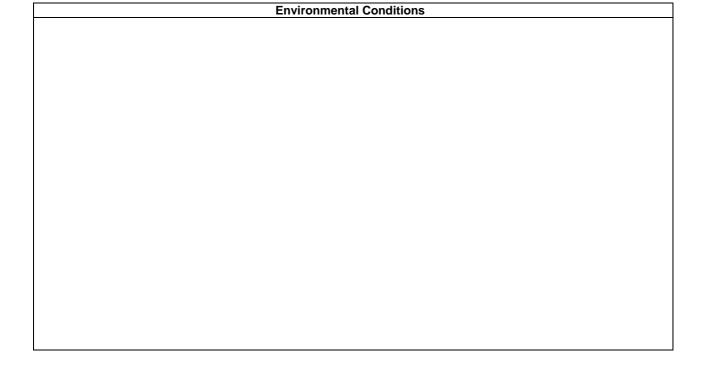
Table C.14: Limitation of the SUT

Limitations of the SUT

C.5.3 Environmental Conditions

In table C.15 the client provides information about any tighter environmental conditions for the correct operation of the SUT.

Table C.15: Environmental Conditions



C.6 Ancillary Protocols

This clause is completed by the client in conjunction with the test laboratory.

In the following tables, the client identifies relevant information concerning each ancillary protocol in the SUT other than the IUT itself. One table for one ancillary protocol.

Based on the MOT the test laboratory should create question proforma for each ancillary protocol in the blank space following each table. The information required is dependent on the MOT and the SUT, and covers all the addressing, parameter values, timer values and facilities (relevant to ENs) as defined by the ICS for the ancillary protocol.

C.6.1 Ancillary Protocols 1

Table C.16: Ancillary Protocol 1

Protocol Name	
Version number	
ICS Reference (optional)	
IXIT Reference (optional)	
PCTR Reference (optional)	

C.6.2 Ancillary Protocols 2

Table C.17: Ancillary Protocol 2

Protocol Name	
Version number	
ICS Reference (optional)	
IXIT Reference (optional)	
PCTR Reference (optional)	

Annex D (informative): PCTR Proforma

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PROTOCOL

Conformance Test Report

(PCTR)

Universal Mobile Telecommunication System, UMTS, User Equipment-Network Access

Layer 3 Signalling Functions

Test Candidate		
Name :	SUT name	
Model:	model	
H/W version :	hw	
S/W version :	sw	
Serial No. :	serienr	

Client	
Name:	
Street / No. :	
Postal Code / City:	
Country :	

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Annex E (informative): TTCN style guide for 3GPP ATS

E.1 Introduction

This annex provides a set of coding standards and development guidelines for use in the development of TTCN abstract test suites for ensuring that user equipment for the 3GPP standard conforms to the relevant core specifications.

The following items are assumed to exist, but their specification is outside the scope of this annex.

- A complete unambiguous prose detailing all test cases to be implemented.
- A complete unambiguous set of core specifications.
- A complete unambiguous detailed description of all the messages that are to be sent.
- A tool or human process that can convert Test Suite Operation Definitions to physical processes within the test system or unit under test.
- An abstracted or generic application programmers interface to all hardware components in the system.
- A tool for the translation and/or compilation of ISO/IEC 9646 [41] series TTCN to run on a test platform.

It is recognized within the context of the 3GPP User Terminal that some of these items are not yet stabilized.

The structure of the present annex maps directly to the guidelines provided in ETR 141 [37]. Rules are repeated in the present annex for convenience, with additional information specific to 3GPP test suite development provided where relevant. For more detailed information or examples about the rules, see ETR 141 [37].

In the present annex, the terms 'should' and 'shall' are frequently used. For the purpose of this annex, the following definitions apply:

- **Shall** means that the rule must be adhered to for all ATS development. If a rule expressed in terms of 'shall' is not followed, either the ATS must be updated so that the rule is followed, or the rule in the coding conventions must be updated to resolve the difference.
- **Should** means that the rule is a guideline. If a rule expressed in terms of 'should' is broken, a brief comment should be provided describing why the guideline does not apply.

E.2 ETR 141 rules and applicability

RULE 1: Statement of naming conventions

Naming conventions should be explicitly stated. Naming conventions should not exist only for a single ATS, and the reader of an ATS should not be forced to "derive" the rules implicitly. The naming conventions should be part of the ATS conventions contained in the ATS specification document.

Names used in the present annex are comprised of a prefix part and a name body part. Conventions for deriving prefixes and name bodies are described after Rule 3 in the present annex.

RULE 2: Coverage of naming conventions

Naming conventions stated should, as a minimum, cover the following TTCN objects:

- test suite parameters/constants/variables;
- test case variables;
- formal parameters;
- timers:
- PDU/ASP/structured types;
- PDU/ASP/structured types constraints;
- test suite operations;
- aliases;
- test case/test step identifiers.

RULE 3: General properties of naming conventions

a) Protocol standard aligned

When there is a relationship between objects defined in the ATS and objects defined in the protocol standard, e.g. PDU types, the same names should be used in the ATS if this does not conflict with the character set for TTCN identifiers or with other rules. In case of a conflict, similar names should be used.

b) Distinguishing

The naming conventions should be defined in such a way, that objects of different types appearing in the same context, e.g. as constraint values, can be easily distinguished.

c) Structured

When objects of a given type allow a grouping or structuring into different classes, the names of these objects should reflect the structuring, i.e. the names should be composed of 2 or more parts, indicating the particular structure elements

d) Self-explaining

The names should be such that the reader can understand the meaning (type/value/contents) of an object in a given context. When suffixes composed of digits are used, it is normally useful to have some rule expressed explaining the meaning of the digits.

e) Consistent

The rules stated should be used consistently throughout the document, there should be no exceptions.

f) Appropriate name length

Following the above rules extensively may occasionally lead to very long names, especially when structuring is used. The names should still be easily readable. When TTCN graphical form (TTCN.GR) is used, very long names are very inconvenient.

NOTE: Also, test tools may not be able to implement very long identifier names, which is an important aspect in this context.

E.2.1 Multiple words are separated by upper case letters at the start of each word

Many names consist of more words, and it shall be easy to distinguish the different words building up the same name. For all TTCN Object classes this is done using the case of the letters.

This rule is mandatory for all names appearing in the body of a dynamic behaviour table, and is recommended for all other TTCN object classes.

Generally every word a name consists of shall start with an upper case letter and the rest of this word shall be in lower case letters.

- E.g.: "channel" + "description" -> "ChannelDescription".

This rule also applies if a word starts after another upper case letter.

- E.g.:. "px" + "Cell" + "A" + "Cell" + "Id" -> px_CellACellId.

This rule also applies if the name has a prefix, which is always lower case.

- E.g.: A test case variable "sequence" + "number" -> tcv_SequenceNumber.

This rule does not apply if the word is a unit, in which case the word retains it's original case.

- E.g.: Power level 1.5 dBm ->PowerLvl1_5dBm.

This rule does not apply if the word in the name is an acronym, in which case the word retains it's normal case.

- If an acronym is followed by another word, an underscore shall be used to separate the acronym from the following word. If an acronym is followed by a number in order to represent an identity (e.g. channel or radio bearer identity) then this acronym is not followed by an underscore.
 E.g.: "this" + "Is" + "SIM" + "Message" + "With" + "CC" + "And" + "RR" + "Things" + "In" + "It" -> "thisIsSIM_MessageWithCC_AndRR_ThingsInIt".
- An exception to acronyms retaining their case is if the name is a field / element / parameter in a structured type / PDU / ASP, in which case it must start with a lower case letter.

 E.g.: "SCH" + "info" + "element" -> "sCH_InfoElement".
- A further exception to acronyms retaining their case is if the name is an ASN.1 constraint, in which case, in which case the first letter is upper case, and the remaining letters are lower case.

For all objects used in the body of dynamic behaviour tables, use of underscores is forbidden, except for the following situations:

- As a replacement for a '.'. E.g. Test case that maps to prose clause 7.2.3.1 -> tc_7_2_3_1.
- To separate prefixes from names.
- To separate acronyms from the following word.
- To separate a number from the following word.
- To replace hyphens when types are re-used / imported from core specifications. This applies to types imported from ASN.1 definitions, and to names derived from table definitions in core specifications.
- To separate an ASP name from the embedded PDU name when the metatype PDU is not used.
 E.g. RRC_DataInd_ConnAck for an RRC data indication ASP with an embedded CONNECT ACKNOWLEDGE PDU.

E.2.2 Identifiers shall be protocol standard aligned

To support rule 3(a), the mapping guidelines in table E1 shall be used. This mapping table also supports rule 6.

Table E.1: Mapping guidelines between protocol standards and identifiers

Туре	Naming rule
Objects of Structured Type	Shall be derived from the name of the Information Element in the standard, if it
	corresponds to this (use standard acronyms where appropriate).
	E.g.: "Window Size super-field" -> "WindowSizeSUFI"
Fields in a Structured Type	Shall be derived from the name of the same field in the corresponding Information Element
	in the standard. (Acronyms for the entire field name shall not be used)
	E.g.: "Header Extension Type" -> "headerExtensionType" (not "HE")
Objects of ASP type	Shall be derived from the name of the corresponding Service Primitive in the Standard,
	using any relevant abbreviations from the present annex. The full name as it appears in the
	core specification shall be included in parentheses after the name.
	E.g.: "CRLC-SUSPEND-Conf" -> "CRLC_SuspendCnf (CRLC-SUSPEND-Conf)"
	If the metatype PDU is not used, the ASP name shall reflect both the ASP, and the
	embedded PDU name, using an underscore to separate the ASP part from the PDU part.
	E.g.: DataReq_StartDTMF_Ack for an RRC-DATA-Req with an embedded START DTMF ACKNOWLEDGE PDU
Objects of PDU type	Shall have exactly the same name as the Message it corresponds to in the standard. If this
	Message is named by more words, they shall be joined, leaving the blanks out
	E.g.: "AMD PDU" -> "AMDPDU".

E.2.3 Identifiers shall be distinguishing (use of prefixes)

To support rules 2, 3(b), 4, and 5, the prefixes shown in table E2 shall be used for TTCN objects. Prefixes are separated from the name by an underscore to improve readability by clearly separating the prefix from the name. This convention will also support searching operations. For example, a search for all uses of PIXIT parameters in the test suite is possible by searching for 'px_'.

The optional *<protocol>* part shall be included in the name when the object is closely related to the protocol (e.g. PICS, some PIXIT parameters), it is necessary to be unambiguous or improves comprehension significantly (e.g. no need to think about protocol stacks on all used interfaces during reading). The optional *<protocol>* part shall be used for types defined in common modules.

Table E.2: Prefixes used for TTCN objects

TTCN object	Case of first character	Prefix	Comment
Test Suite	Upper	-	
TTCN Module	Upper	-	
Simple Type	Upper	[<protocol>_]</protocol>	Note 8
Structured Type	Upper	[<protocol>_]</protocol>	Note 8
Element in Structured Type	Lower	-	1.0.0
ASN.1 Type	Upper	[<protocol>_]</protocol>	Note 8
Element in ASN.1 Type	Lower	-	11010 0
Test Suite Operation	Upper	o_[<protocol>_]</protocol>	Notes 1 and 8
TSO Procedural Definition	Upper	o_[<pre>color=]</pre>	Notes 1 and 8
Formal Parameter to TSO or TSOP	Upper	p_	110100 Faria 0
Test Suite Parameter (PICS)	Upper	pc_[<protocol>_]</protocol>	Note 8
Test Suite Parameter (PIXIT)	Upper	px_[<pre>protocol>_]</pre>	Note 8
Test Case Selection Expression	Upper	[<protocol>_]</protocol>	Note 8
Test Suite Constant	Upper	tsc_[<protocol>_]</protocol>	Note 8
Test Suite Variable	Upper	tsv_[<protocol>_]</protocol>	Note 8
Test Case Variable	Upper	tcv_[<protocol>_]</protocol>	Note 8
PCO Type	Upper	-	11010 0
PCO	Upper	_	Note 2
CP	Upper	cp_	Note 2
Timer	Upper	t_[<protocol>_]</protocol>	Note 8
Test Component	Upper	mtc_[<protocol>_] or ptc_[<protocol>_]</protocol></protocol>	Notes 3 and 8
Test Component Configuration	Upper	-	140103 5 4114 5
ASP Type	Upper	[<protocol>_]</protocol>	Notes 4 and 8
Parameters within ASP Type	Lower	[_\protector_]	Note 4
PDU Type	Upper	[<protocol>_]</protocol>	Notes 4 and 8
TTCN object	Case of first	Prefix	Comment
_	character		
Fields within PDU Type	Lower	-	Note 4
Encoding Definition	Upper	enc_	
Encoding Variation	Upper	var_	
Invalid Field Encoding Variation	Upper	inv_	
СМ Туре	Upper	cm_	
Field within CM Type	Lower	-	
Alias	Upper	a_	
ASP constraint	Upper	ca[b d][s r w]_[<protocol>_]</protocol>	Notes 5 and 8
PDU constraints	Upper	c[b d][s r w]_[<protocol> AA 108]</protocol>	Notes 5, 8 and 10
Constraint (other types)	Upper	c[b d][s r w]_[<protocol>_]</protocol>	Notes 5 and 8
Formal Parameter for a Constraint	Upper	p_	
Test Case Group	Upper	<pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre>	Note 8
Test Step Group	Upper		
Test Case	Upper	tc_	Note 6
Test Step	Upper	(ts_ pr_ po_) <cn domain="">_<protocol>_</protocol></cn>	Notes 7, 8 and 9
Local tree	Upper	lt_	

Defaults			
	lUpper	I <protocol></protocol>	INote 8

- NOTE 1: Coding rules are not specified for test suite operation procedural definitions at this stage. These rules will be defined when the need arises
- NOTE 2: A prefix is not used for PCO declarations, but is used for CP declarations. This is because PCOs and CPs will only be used in send and receive statements, and PCOs will be used more frequently than CPs. Since a PCO name or a CP name will be used on most behaviour lines, PCO names should be as short as possible E.g. 2 to 3 characters.
- NOTE 3: The prefix is mtc if the component role is MTC, or ptc if the component role is PTC. If multiple PTCs are used, the rest of the identifier will clarify which PTC is being referred to. E.g. ptc_Cell1, ptc_Cell2.
- NOTE 4: This applies for both tabular and ASN.1 definitions.
- NOTE 5: Constraint prefixes are built up from the following regular expression. c[a][b|d][s|r|w].
 - 'c' shall always be present to indicate that the object is a constraint.
 - 'a' shall be present for ASP constraints to distinguish them from PDU constraints.
 - 'b' shall be present if and only if the constraint is used as a base constraint. (i.e. included in the derivation path of any other constraint).
 - 'd' shall be present if the constraint is derived from another constraint.(i.e. has an entry in it's derivation path field)
 - 'b' and 'd' cannot both be used in the same constraint, thereby limiting the derivation path to 1.
 - For the purpose of the present note, the following definitions are required (see TR 101 666 [27] clause 12.6.2):
 - The term 'field' is used to represent a structured type element, an ASP parameter, or a PDU field.
 - A 'bound field' is a field that either contains a Specific Value, or is Omitted (-).
 - An 'unbound field' is a field that contains any of the following matching mechanisms: Complement, AnyValue (?), AnyOrOmit (*), ValueList, Range, SuperSet, SubSet, AnyOne (?), AnyOrNone (*), Permutation, Length, or IfPresent.
 - 's' may optionally be present if the constraint is only used in send statements. 's' shall not be present if the constraint contains any unbound fields, or any fields chained to a constraint whose prefix includes 'w' or 'r'.
 - 'r' may optionally be present if the constraint is only used in receive statements.
 - 'w' may optionally be present to indicate that the constraint contains fields that are unbound. Before these constraints are used in SEND events, all unbound fields must either be bound by using a derived constraint, or explicitly assigned a value in the SEND event behaviour line.
 - Either 'w' or 'r' shall be used if any fields in the constraint are unbound or are chained to a constraint whose prefix includes 'w' or 'r'.
- NOTE 6: Test case names will correspond to the clause in the prose that specifies the test purpose. E.g. tc_7_2_23_2. An additional digit may be specified if more than one test case is used to achieve the test purpose. If an additional digit is required, this probably means that the test prose are not well defined.
- NOTE 7: Test steps may optionally use the prefixes pr_ or po_ to indicate that the test step is a preamble or postamble respectively.
- NOTE 8: Protocol abbreviations are provided in table E3. Protocol abbreviations may optionally be used to clarify the scope of TTCN objects, or to resolve conflicts when the same name is required by multiple protocols within the ATS. The protocol abbreviation indicates that the object is related to a particular procedure (e.g. an MM procedure). This does not prevent the object from being used by an ATS testing a different protocol. If an object is specific to one ATS, this should be indicated in comments, rather than using a protocol abbreviation (e.g. if a timer is only used in RLC tests this should be stated in the comments, rather than using the abbreviation RLC in the timer name). If two different types exist in the ATS that represent the same information (e.g. IMSI) conversion operations shall be used to ensure consistency between the types. Also, conversion operations shall be used to avoid asking the same PIXIT question twice. For example, if a type is defined as an OCTETSTRING[4] for a NAS protocol, and the same type is represented as a BITSTRING[32] for RRC, a single PIXIT question shall be asked, and conversion operations shall be used to ensure that the same value is used for both types.
- NOTE 9: The prefixes CS and PS may optionally be used to indicate that a test step is specific to circuit switched, or packet switched signalling respectively. For test steps specific to the Upper Tester, the prefixes AT or MMI or UT shall be used to indicate that, respectively, AT or MMI or both types of commands are used.
- NOTE 10: The prefix AA shall be used for RRC PDU constraints to indicate that it is defined in 3GPP TS 34.123-1 [1] annex A. The prefix 108 shall be used for RRC PDU constraints to indicated that it is defined in 3GPP TS 34.108 [3] clause 9.

Table E.3: Protocol abbreviations for prefixes

Protocol / prefix
BMC
CC
CS
GMM
MAC
MM
PDCP
RLC
RRC
SMS
SS
SUS (Supplementary services)
TC

E.2.4 Identifiers should not be too long (use standard abbreviations)

To assist in keeping TTCN identifiers shorter, table E.4provides a non-exhaustive set of standard abbreviations that shall be used when naming objects that are used in the body of dynamic behaviour tables. Consistent use of abbreviations will improve test suite readability, and assist maintenance.

Table E.4: Standard abbreviations

Abbreviations	Meaning
Acs	access
Acp	accept
Ack	acknowledge
act	activation
addr	address
(re)alloc	(re)allocated, (re)allocation
arg	argument
ass	assignment
auth	authentication
ava	avail, available
bCap	bearer capability
cau	cause
clg	calling
ch	channel
chk	check
ciph	cipher, ciphering
cld	called
clsmk	classmark
cmd	command
cmpl	complete
cnf	confirm
cfg	configuration
conn	connect
ctrl	control
def	default
descr	description
disc	disconnect
enq	enquiry
err	error
(re)est	(re)establish
ext	extended
fail	failure
ho	handover
id	identity / identification

Meaning
information element
information element length
indication
information
initialize
level
location
location update
maximum
management
minimum
miscellaneous
modification
mobile station
message
mobile terminal
neighbour
network
number
origin/-al
page/-ing
parameters
permission
physical
quality
random
reference
register
reject
release
request
response
receiver
selection
sequence
service
state
system information
synchronization
system
transmitter

RULE 4: Specific naming rules for test suite parameters/constants/variables test case variables and formal parameters

- a) The name should reflect the purpose/objective the object is used for.
- b) If the type is not a predefined one, it is useful that the name reflects the type, too.
- c) It could be useful, that the individual naming conventions are not the same for all object classes this rule applies to. e.g. use upper case letters for test suite parameters/constants, and use one of the other possibilities presented in ETR 141 [37] example 1 for other object classes.

See also ETR 141 [37] clauses 5.1 to 5.4 for further discussion on naming test suite parameters.

RULE 5: Specific naming rule for timers

If the timer is not defined in the protocol to be tested, the name should reflect the objective of the timer used for testing.

NOTE: There is no need to indicate the object type "timer" in the name, since timers only occur together with timer operations

RULE 6: Specific naming rule for PDU/ASP/structured types

As far as applicable, derivation rules or mapping tables should be used to relate the names of the types to the corresponding objects in the protocol or service definition.

NOTE: There may be types, e.g. erroneous PDU types, that do not relate to an object in the protocol or service definition.

Whenever names of types are derived from ASN.1 type definitions provided in the core specifications, the names shall remain the same as the ASN.1 specifications, and references shall be provided in the comment fields.

RULE 7: Specific naming rule for PDU/ASP/structured types constraints

Rules should be stated to derive the names from the names of the corresponding type definitions. It is often possible to use the type name plus an appropriate suffix reflecting the specific constraint value. In case of lengthy names, useful abbreviations or a defined numbering scheme can be chosen.

Constraint names begin with the appropriate prefix, followed by the first letter of each word in the type, followed by words describing the peculiarity of the constraint. E.g. Type = RadioBearerSetupPDU, constraint name could be cb_RBSP_GenericUM_DTCH.

RULE 8: Specific naming rule for test suite operations

The name should reflect the operation being performed.

i.e. the name should indicate an activity, not a status. This can be achieved e.g. by using appropriate prefixes like "check", "verify", etc.

RULE 9: Specific naming rule for aliases

The name should reflect that aspect of its expansion, that is important in the situation where the alias is used. Derivation rules should be provided to derive the alias name from its macro expansion or from the name of an embedded ASP / PDU.

See also ETR 141 [37] clauses 6.3.6 and 9 for further guidelines on naming aliases.

RULE 10: Specific naming rule for test steps

The name should reflect the objective of the test step.

RULE 11: Selecting the ASN.1 format for type definitions

- a) If the protocol standard uses ASN.1 to specify the PDUs, the ATS specifier should also use ASN.1.
- b) If the protocol standard does not use ASN.1, check carefully whether features of ASN.1 that the tabular format of type definition does not present are necessary in the ATS, or could ease the design and understanding of the definitions as a whole. Check especially whether fields or parameters have to be specified, the order of appearance of which, in a received ASP/PDU, cannot be predicted. If any of these conditions apply, use ASN.1 for type and ASP/PDU type declarations.
- c) Use the option of "ASN.1 ASP/PDU type Definitions by Reference" whenever applicable.
- d) Example 14 shows a compatibility problem that could occur, when ASN.1 type declarations as well as tabular type declarations are used in an ATS. Use the ATS Conventions to describe how this compatibility problem is handled in the ATS, i.e. whether in expressions and assignments entities defined in ASN.1 are only related to entities defined in ASN.1 or not.

Names of ASN.1 objects shall be kept the same as the core specifications in this case, even where the names are at odds with the naming conventions adopted for other TTCN objects.

RULE 12: Further guidelines on type definitions

- Use simple type or ASN.1 type definitions whenever an object of a base type with given characteristics (length, range, etc.) will be referenced more often than once.
- b) Use the optional length indication in the field type or parameter type column of structured type and ASP/PDU type definitions whenever the base standard/profile restricts the length.
- NOTE 1: This can often be achieved by references to simple types.
- Map the applicable ASPs/PDUs from the service/protocol standard to corresponding ASP/PDU type definitions in the ATS
- NOTE 2: It may happen that not all ASPs/PDUs of a service/protocol standard are applicable to a particular ATS for the related protocol. It may also happen that additional ASP/PDU type declarations are necessary, e.g. to create syntactical errors.
- d) Map the structure of ASPs/PDUs in the service/protocol standard to a corresponding structure in the ATS.
- NOTE 3: This mapping is not always one-to-one, e.g. because a field in the PDU definition of the protocol standard is always absent under the specific conditions of an ATS. But it should normally not happen, that a structured element in the protocol standard is expanded using the "<-" macro expansion, so that the individual fields are still referenced, but the structure is lost in the ATS.

RULE 13: Specification of test suite operations

- a) Use a test suite operation only if it cannot be substituted by other TTCN constructs.
- Write down the rationale/objective of the test suite operation.
 Reference standards if applicable.
- c) Classify and simplify algorithm.
 - Split test suite operation if too complex.
- d) Choose an appropriate specification language depending on the rationale/objective:
 - predicates for Boolean tests;
 - abstract data types for manipulation of ASN.1 objects;
 - programming languages for simple calculation.
- e) Check/proof the test suite operation:
 - is the notation used known/explained;
 - are all alternative paths fully specified;
 - is the test suite operation returning a value in all circumstances;
 - are error situations covered (empty input variables, etc.).
- State some evident examples.

E.2.5 Test suite operations must not use global data

All information required by test suite operations must be passed as formal parameters. This includes test suite variables, test case variables, test suite parameters, and constraints.

RULE 14: General aspects of specifying constraints

- a) Develop a design concept for the complete constraints part, particularly with respect to the "conflicting" features as indicated in items i) to iv) and including naming conventions (see ETR 141 [37] clause 6).
- b) Make extensive use of the different optional "Comment" fields in the constraint declaration tables to highlight the peculiarity of each constraint.

RULE 15: Relation between base constraints and modified constraints

- a) Define different base constraints for the send- and receive direction of a PDU (when applicable).
- Use modified constraints preferably when only a small number of fields or parameter values are altered with respect to a given base.
- NOTE 1: For SEND events the creation of a further modified constraint can sometimes be avoided, if an assignment is made in the SEND statement line, thus overwriting a particular constraint value.
- Design the relation between base constraints and modified constraints always in connection with parameterization of constraints (see the two subsequent subclauses).
- NOTE 2: Additional parameters in a constraint, introduced to avoid the declaration of further base/modified constraints can reduce the amount of constraints needed in an ATS, but then the constraint reference is getting more and more unreadable.
- d) When modified constraints are used, keep the length of the derivation path small. The length of the derivation path (resulting from the number of dots in it) is a kind of nesting level, and it is known from experience that a length greater than 2 is normally difficult to overview and maintain.

Modified constraints should not have a derivation path longer than 1. A modified constraint should not alter more than 5 values with respect to a given base constraint. If a constraint is used as a base constraint, it must have the prefix 'cb', to warn test suite maintainers / developers that any changes to this constraint may cause side effects.

Note that if an existing constraint without the 'cb' prefix is to be used as a base constraint, either a new, identical constraint with an 'cb' prefix must be created, or the existing constraint must be renamed to include the 'cb' prefix in all places it is referenced in the test suite.

RULE 16: Static and dynamic chaining

- a) Make a careful evaluation of which embedded PDUs are needed in ASPs/PDUs, in which (profile) environment the ATS may operate and which kind of parameterization for other parameters/fields is needed, to find an appropriate balance between the use of static and/or dynamic chaining in a particular ATS.
- b) When the ATS is used in different profile environments and the types and values of embedded PDUs cannot be predicted, dynamic chaining is normally the better choice.
- c) When static chaining is used, chose the name of the ASP/PDU constraint such that it reflects the peculiar value of the embedded PDU (see also the clause on naming conventions in ETR 141 [37]).

RULE 17: Parameterization of constraints

- Make a careful overall evaluation of which field/parameter values are needed in ASPs and PDUs to find an appropriate balance between the aim of a comparably small number of constraint declarations and readable and understandable constraint references.
- b) Keep the number of formal parameters small.

 Keep in mind, that the number of formal parameters in structured/ASN.1 types Constraints will add up to the total number of ASP/PDU constraints.
 - A clear border for the number of formal parameters cannot be stated, but it is known from experience that a number bigger than 5 normally cannot be handled very well.

Constraints should not be passed more than five parameters. Instead, more constraints should be defined. Related parameters can be grouped in new structured types to reduce the number of parameters that must be passed to constraints.

NOTE 1: The value five has been selected based on the recommendation in ETR 141 [37] rule 17. If more parameters are required, we can update this rule, or use more than 5 parameters, and provide documentation indicating why more parameters are required.

A constraint should not be passed parameters to that are not processed in that constraint. If for example a parameter is to be passed from a PDU constraint to a structured type constraint then the PDU constraint should be made specific and not have that parameter passed. The reason for this is that no editors as yet can trace through this mechanism and it becomes very difficult in a complex suite to see exactly what is being passed.

For example:

```
PduA ::= SEQUENCE {
  infoElement1    InformationElementType1,
    infoElement2    INTEGER
}

InformationElementType1 ::= SEQUENCE {
  field1    INTEGER,
  field2    INTEGER
}

cb_PATypical( p_Field1: INTEGER; p_Field2: INTEGER ) ::= {
  infoElement1    c_IET1Typical( p_Field1 ),
    infoElement2    pField2
}

c_IET1Typical( p_Field1: INTEGER ) ::= {
  field1    p_Field1,
  field2    5
}
```

In the example constraint cb_PATypical, passing p_Field1 through to a nested constraint is not allowed, but the use of p_Field2 is acceptable.

RULE 18: Constraint values

- a) Use comments to highlight the peculiarity of the value, especially when the value is a literal, whose meaning is not apparent.
- b) Use test suite constants instead of literals, when appropriate. Normally not all literals can be defined as Test Suite Constants, but a rule by thumb is: if a literal value of a given type occurs more than once (as a constraint value or more generally in an expression), then it is useful to define it as a Test Suite Constant, letting the name reflect the value.
- c) Use the length attribute when possible and when the length is not implicit in the value itself or given by the type definition (e.g. for strings containing "*").

RULE 19: Verdict assignment in relation to the test body

Make sure that verdict assignment within a default tree is in relation to the test body. If an unsuccessful event arising in the test body is handled by the default tree, then assign a preliminary result "(FAIL)" within the corresponding behaviour line of the default tree. If the position of the unsuccessful event is not in the test body, assign a preliminary result "(INCONCLUSIVE)". If the behaviour line handling the unsuccessful event is a leaf of the default tree, assign a final verdict instead.

RULE 20: Test body entry marker

The entry of the test body should be marked.

RULE 21: State variable

For realizing test purposes dependent on protocol states, use a variable to reflect the current state of the IUT.

RULE 22: State checking event sequences

Combine event sequences used for checking a state of the IUT within test steps.

RULE 23: Easy adaptation of test steps to test cases

For easy adaptation of a test step to test case needs, parameterize the constraints used within a test step.

Test steps may be parameterized, but with no more than five parameters. See also ETR 141 [37] clause 12.2 and rule 28. Related parameters can be grouped in new structured types to reduce the number of parameters that must be passed to constraints.

NOTE 2: Again, the value five has been selected based on the recommendation in ETR 141 [37] rule 17. If more parameters are required, we can update this rule, or use more than 5 parameters, and provide documentation indicating why more parameters are required.

RULE 24: Minimizing complexity of test steps

Minimize the complexity of test steps either by restricting the objective of a test step to atomic confirmed service primitives or by separating event sequences, which build different "logical" units into different test steps.

RULE 25: Nesting level of test steps

Keep the nesting level of test steps to a minimum.

RULE 26: Recursive tree attachment

Avoid recursive tree attachment. Where possible, use loops instead of recursive tree attachments.

RULE 27: Verdict assignment within test steps

If verdicts are assigned within a test step, guarantee at least the partial (i.e. not general) re-use of the test step.

RULE 28: Parameterized test steps

Use parameterized test steps to ensure re-use of test steps within test cases for different needs.

RULE 29: Combining statements in a sequence of alternatives

If there is no Boolean expression included in an alternative sequence, a statement of type UCS (unconditional statement) should never be followed by a statement of type UCS or CS (conditional statement) within a sequence of alternatives.

RULE 30: Using relational expressions as alternatives

- A relational expression should never restrict the value range of a preceding relational expression in the same alternative sequence using the same variable.
- b) The value range of a relational expression should be different from the whole value range of all preceding relational expressions in the same alternative sequence using the same variable.

RULE 31: Loop termination

Do not use conditions for terminating loops, which depend only on the behaviour of the IUT.

RULE 32: Avoiding deadlocks

- Make sure that each alternative sequence of receive events contains an OTHERWISE statement (without any qualifier) for each PCO.
- Make sure that each alternative sequence of receive events contains at least one TIMEOUT event (implying that a corresponding timer was started).

A set of alternatives using qualifiers shall always include an alternative containing the qualifier [TRUE], to provide a default behaviour if none of the qualifiers match.

For example:

```
[ tcv_Value = 1 ]
  AM ! ASP_ForValue1
    ...
[ tcv_Value = 2 ]
  AM ! ASP_ForValue2
    ...
[ TRUE ]
  AM ! ASP_ForOtherValues
```

RULE 33: Straightforward specification of test cases

- a) Use only event sequences leading to the test body within a preamble.
- b) Handle all event sequences not leading to the test body within the default tree of the test case/step.
- c) If the very same event sequence can be used to transfer the IUT from each possible state to the idle state, then realize this event sequence as a postamble.

RULE 34: Test component configuration declaration

Avoid recursive test component configuration declarations.

RULE 35: Default trees with RETURN statement

Special care should be taken by using a RETURN statement within a default tree in order to avoid an endless loop resulting from the expansion of the default tree.

E.3 3GPP ATS implementation guidelines

This clause provides a set of guidelines that must be followed during ATS development. In general, these guidelines are intended to prevent developers from making common errors, or discuss considerations that must be taken into account before using specific features of the TTCN language.

E.3.1 Test case groups shall reflect the TSS&TP document

Test groups shall be used to organize the test cases in the same way as the test purposes are structured in the prose specification.

The general structure of the test groups should be in the following format.

cprotocol>/<group>/<subgroup>

E.g. RLC/UM/Segmentation/LengthIndicator7bit/

E.3.2 Test case names correspond to the clause number in the prose

Test case names are derived directly from the clause number in the prose specification. Decimal points between digits in the clause number are replaced with underscores. E.g. the test case name for the test purpose specified in clause 7.2.3.2 of 3GPP TS 34.123-1 [1] is tc_7_2_3_2. If more than one test case is required to achieve a test purpose, an additional digit may be added. See also ETR 141 [37] clause 6.3.7.

E.3.3 Use standard template for test case and test step header

Table E.5 illustrates how the Test Case dynamic behaviour header fields should be used.

Table E.5: Template for TTCN test case table header

F	Field	Contents				
Test Case	Name:	tc NUMBER OF TESTCASE				
		The number of the test case, which is used in the name of the test case,	is the nun	nber it has in		
		the prose specification.				
		e.g.: "tc_26_13_1_3_1"				
Group: Is automatically filled and cannot be changed						
Purpose:		This is taken directly from the prose specifications.				
Configura	tion:	As required if concurrent TTCN is being used.				
Default		The appropriate default				
Comment	s:	First line contains:				
		Specification: The names and clauses of relevant core specifications.				
		Next line contains:				
		Status: OK / NOT OK (+explanation if not ok) / Version number / Validate	ed / Revie	wed, etc.		
		E.g.: Status: OK				
		Rest of lines give comments as:				
		What has to be done before running this test?				
		E.g.: 1. Generic setup procedure must be completed before running this test.				
		Any special information about what might be needed for the testing system, like specific requirements for the testing system, specific hacks, certain settings, etc. This field should be				
		short (if long description is needed it must be put into Detailed Comments		snould be		
Selection	Dof:	The appropriate test case selection expression.	5)			
Descriptio		Optional. Max 4 lines. If available, this should be the title of the prose cla	una Nata	1		
Nr Labe		r Description Constraints Ref	Verdict	Comments		
1 Labe	Note 3	Note 3	verdict	Note 2		
Detailed C	1	1.1212.2	oto 2	Note 2		
		Contains detailed information about test steps + additional information No		d should only		
NOTE 1.		on field in the test case / step header is used to generate the test suite over if overview of the test case / step with a maximum of 4 lines. For a more d				
		/ step algorithm / parameters etc, the comments or detailed comments fie				
NOTE 2:		ts field for each behaviour line should usually consist of a number that is a				
110122.	numbered comment in the detailed comments field. If this extra level of indirection reduces readability, brief					
		in be used in the comments field for each behaviour line.	1000 10000	iomity, orior		
NOTE 3:		e behaviour description or constraints reference column contain lists with	more that	n one		
		iage returns should be used between list elements to prevent the line from				
1	,			<u> </u>		

Table E.6 illustrates how the Test Case dynamic behaviour header fields should be used.

Table E.6: Template for TTCN test step table header

Test Step Name ts_TestStepName(p_Param1: Param1Type; p_Param2: Param2Type)					
Group	Is automatically filled and cannot	ot be changed			
Objective	The objective of the test case. Provides a brief summary of the functionality of the test step.				
Default	The appropriate default				
Comments A detailed description of the test step, including the relevant items from the following categories:				wing	
	Algorithm A detailed description of the algorithm / principles used within the test step				
	Parameters: A description of each of the parameters passed to the test step, including the purpose of the parameter, valid values, restrictions etc.				
	Preconditions The required state of the UE and / or SS before using this test step, including test steps that should be executed before using the present test step, and a description of all test case variables that must contain appropriate values before using this test step.				
	Postcondidions The expected state of the UE and / or SS after using this test step, including a description of all test case variables that will be modified by this test step. NOTE: It is too difficult to maintain the list of variables required / affected by nested test steps, so it is the users responsibility to check which variables are required /				
Description	affected by nested te Optional. Max 4 lines. Note 1	st steps.			
Description Nr Label Behavious		Constraints Ref	Verdict	Comments	
1 Note 3		Note 3	verdict	Note 2	
Detailed Comments			itional information Nata 2	NOIE Z	
Detailed Comments					
NOTE 2: The comments field for each behaviour line should usually consist of a number that is a reference to a specific numbered comment in the detailed comments field. If this extra level of indirection reduces readability, brief comments can be used in the comments field for each behaviour line.					
	behaviour description or constra ge returns should be used betwe				

E.3.4 Do not use identical tags in nested CHOICE constructions

A nested CHOICE requires tags in the different alternative type lists to differ (see ISO/IEC 8824 [29], clause 24.4, example 3, INCORRECT). "The tag shall be considered to be variable, ... becomes equal to the tag of the "Type" ... from which the value was taken".

EXAMPLE: components are defined in a nested CHOICE construction, but no distinguishing tags are used to make the difference between component types, i.e. tags for different types turn out to be identical.

```
GSMLocationCancellation_Components ::= CHOICE {
   gSMLocationCancellation_InvokeCpt [1] IMPLICIT GSMLocationCancellation_InvokeCpt,
   gSMLocationCancellation_RejectCpt [4] IMPLICIT RejectComponent
}
```

gSMLocationRegistrationInvokeCpt and gSMLocationCancellation_InvokeCpt have the same tag and can therefore not distinguished anymore. Note that ITEX 3.5 does not report this error.

E.3.5 Incorrect usage of enumerations

Enumerations may contain distinct integers only (see ISO/IEC 8824 [29], clause 15.1).

EXAMPLE: TypeOfNumber containing a NamedValueList in which there are non-distinct values.

```
TypeOfNumber ::= ENUMERATED {
....,
  internationalnumber (1),
  level2RegionalNumber (1),
  nationalNumber (2),
  level1RegionalNumber (2),
.....
}
```

E.3.6 Structured type as OCTETSTRING should not be used

"It is required to declare all fields of the PDUs that are defined in the relevant protocol standard, ..." TR 101 101 [38] TTCN specification clause 11.15.1.

EXAMPLE 1: The ISDN Bearer Capability Information Element (BCAP) contents is defined as OCTETSTRING.

EXAMPLE 2: Usage of data type BITSTRING [7..15] as data type of the Call Reference (= 7 bits or =15 bits, but not 8 bits for example) does not correspond to the specification !!).

E.3.7 Wildcards in PDU constraints for structured types should not be used

Contrary to popular belief, TR 101 666 [27] does not support the use of wildcards for TTCN ASP parameters, or TTCN PDU fields whose type is structured. It is not clearly stated if wildcards are permitted for TTCN structured type elements whose type is structured but it is assumed that they are not permitted because the semantics for this are not clearly specified.

Note that this does not apply to ASN.1 Type definitions, ASPs, or PDUs.

Most tools do support wildcards for TTCN ASP parameters / TTCN PDU fields / TTCN structured type elements whose type is structured, but there is ambiguity between implementations since the semantics are not clearly specified in the core specification.

This feature is commonly used by TTCN developers, and is present in many existing test suites, including the 3GPP test suite, and in constraints that are being re-used from GERAN tests.

One problem with values '?' and '*' in constraints where they are used to indicate values of structured types, is that they would allow any combinations of values - even incorrect ones - which is not admissible according to the specifications. It is to be kept in mind that in tabular form each field is optional! It would be better to create and use an "any"-constraint which would deal with all the fields in detail (mandatory, IF PRESENT, etc.).

For the purpose of the present annex, the following rules shall apply:

1. '?' shall not be used to indicate values of TTCN ASP parameters / TTCN PDU fields / TTCN structured type elements whose type is structured. Known TTCN implementations differ significantly in their implementation of this feature.

- 2. '*' shall not be used for TTCN PDU fields, or TTCN ASP parameters whose type is structured (i.e. at the top level).
 - 2.1 Usage of wildcards should be avoided in structured type identifiers. Only simple type fields should use * or ?
- 3. '*' is permitted but discouraged for structured type elements whose type is structured. Note that this may result in ambiguous behaviour between TTCN implementations because the semantics are not specified in TR 101 666 [27].
- 4. One of the following two options shall be used as an alternative to using a '?' for a TTCN ASP parameter / TTCN PDU field / TTCN structured type element whose type is structured.
 - 4.1 Option 1: Use '*' instead (only applicable to structured type elements due to rules 2 and 3 above).

WARNING: This may result in the situation where a UE omits a mandatory field, but passes the test anyway, and / or different behaviour depending on the TTCN tool used.

- 4.2 Option 2 (preferred option; supported by TR 101 666 [27]): Use an 'any' constraint, in conjunction with IF PRESENT if appropriate (whole TTCN ASP parameters / TTCN PDU fields / TTCN structured type elements may be omitted according to TR 101 666 [27]). This means that the constraint value specified for the parameter / field / element shall be a reference to another constraint of the appropriate structured type, which may in turn use wildcards for each of it's elements according to the rules specified in the present annex.
- 5. A structured type formal parameter should not be used together with the IF_PRESENT indication inside a structured type constraint. If this is required, then this shall be clearly commented.

E.3.8 TSOs should be passed as many parameters as meaningful to facilitate their implementation

Parameters should be passed to TSOs to facilitate the TSO realization. If a TSO is used in various contexts, this should be reflected in the parameters passed to the TSO. Specifically, TSOs operating on well-defined (parameterized) constraints should take these constraints (including relevant parameters) as parameters if required.

BAD EXAMPLE: In this example, the TSO may be used in many contexts, but no information is passed to the TSO, which makes TSO realization difficult.

L?SETUPr (Sr (SU_GR3(
tcv_invokeld := TSO_GET_INVOKEID (),	GSM_IncomingCallMMInfo_In	
)	voke()))	

GOOD EXAMPLE: In this case, the TSO is provided with information about the data object from which the invoke Id is to be extracted, and the type of component from which the invoke Id is to be extracted is identified by passing the component constraint.

L?SETUPr (Sr (SU_GR3(
tcv_invokeld := TSO_GET_INVOKEID (GSM_IncomingCallMMInfo_In	
DL_DataInd_Setup.msg,	voke()))	
GSM_IncomingCallMMInfo_Invoke()),		
)		

To calculate the invocation identification and store the result in variable tcv_invokeId the TSO has to be provided with information about the data object from which the invoke Id is to be extracted. PDU constraint SU_GR3 may contain several components. In the specific situation only one of these components is relevant.

Depending on the nature of the TSO, passing the received value, or a subcomponent of the received value may be more appropriate than passing the constraint.

E.3.9 Specification of Encoding rules and variation should be indicated

TTCN does not mandate encoding rules, although TTCN foresees that applicable encoding rules and encoding variations can be indicated for the data structures used in a test suite.

There are standards defining encoding rules, e.g. the ITU-T Recommendation X.680 [39] series. However, the type of encoding called "Direct Encoding" - a bit-by-bit-mapping from the data definitions onto the data stream to be transmitted - is not defined anywhere. It therefore needs a "home".

TTCN should therefore define which encoding rules may legally be used by TTCN test suite specifiers. All the encoding rules defined in the ITU-T Recommendation X.680 [39] series should be contained in this repertoire. Additionally an encoding rule called Direct Encoding is needed in particular for tabular TTCN.

ITU-T Recommendation X.680 [39] allows to encode data objects using different length forms (short, long, indefinite). These could be used alternatively as encoding variations. Another encoding variation could be the "minimum encoding", accepting any of the length forms in reception, and using the shortest of the available forms in sending. The variation actually used has to be described somewhere (in the ATS).

E.3.10 Use of global data should be limited

The Phase 2 ATS became extremely complex due to the global definition of data. Data should be defined locally where possible if the language allows, alternatively the names of global constraints could be given prefixes to indicate their use.

E.3.11 Limit ATS scope to a single layer / sub-layer

Separate ATSs should be produced to test each Layer and perhaps sub Layer. By doing this preambles and common areas particular to one sub Layer can be confined to one test suite and parallel development of test suites can be facilitated.

E.3.12 Place system information in specially designed data structures

System Information data could be stored in specially defined data structures, use of these structures to build PDUs may help to ensure that a consistent set of data is transmitted in all the channels in a cell.

E.3.13 Place channel configuration in specially designed data structures

Likewise the configuration of a 'channel' could be stored in similar structures. This data can then be used to configure the test system and to build Assignment messages to the UE under test. This may help avoid the situation where the TTCN creates one channel and unintentionally commands the mobile to a different, non-existent, channel.

E.3.14 PICS / PIXIT parameters

It is desirable to limit the scope of PICS / PIXIT parameters.

A default value shall be provided in the PIXIT document for all PIXIT parameters.

PICS / PIXIT parameters shall not include structured types. If a structured parameter is required, several parameters shall be used, one for each simple element within the type, and a constraint shall be created to combine the simple parameters into a structured type.

For example, to use the following structured type as a parameter.

Type Name	LocAreald_v				
Encoding Variation					
Comments	Location Area Identification Value 3GPP TS 24.008 [9] clause 10.5.1.3				
Element Name	Type Definition	Field Encoding	Comments		
mcc	HEXSTRING[3]		MCC 3 digits		
mnc	HEXSTRING[3]		MNC 3 digits		
lac	OCTETSTRING[2]		LAC		
Detailed Comments					

The following three PIXIT parameters should be defined: Parameter Name	Туре	PICS/PIXIT Ref	Comments
px_LACDef	OCTETSTRING	PIXIT TC	default LAC
px_MCCDef	HEXSTRING	PIXIT TC	default MCC
px_MNCDef	HEXSTRING	PIXIT TC	default MNC

And then the following constraint can be used to combine the simple parameters into a structured parameter.

Constraint Name	cb_LocArealdDef_v	cb_LocArealdDef_v					
Structured Type	LocAreald_v	_ocAreald_v					
Derivation Path							
Encoding Variation							
Comments							
Element Name	Element Value	Element Encoding	Comments				
mcc	px_MCCDef						
mnc	px_MNCDef						
lac	px_LACDef						
Detailed Comments							

E.3.15 Dynamic vs. static choices

Don't use wildcards for static choice constraints. For example, a type that is similar for FDD and TDD should have 2 type definitions, rather than a single type that uses an ASN.1 choice. Then in the TTCN, the correct type should be selected based on test suite parameters.

E.g.:

```
[ pxUseTddMode ] AM ! TddSpecificAsp
AM ?
...
[ pxUseFddMode ] AM ! FddSpecificAsp
AM ? ...
```

E.3.16 Definition of Pre-Ambles and Post Ambles

Test cases should, as far as possible, use one of a set of standard pre-ambles to place the user equipment in its initial conditions. These pre-ambles should align with the generic setup procedures in the conformance specification. All non-standard pre-ambles should be identified and added to the pre-amble library.

With pre-ambles readability is very important so they should not use other test steps to send message sequences, and they should be passed as few parameters as possible. This also makes the results log easier to read.

The prose message sequence charts should be analysed, and a catalogue of common ways in which the test cases can terminate (correctly) created. This catalogue should be used to create a set of post-ambles. All final verdicts should be assigned in the post-ambles.

Wherever possible, a post-amble should return the test system and the User Equipment under test to a known idle state.

E.3.17 Use test steps to encapsulate AT and MMI commands

When the same AT or MMI command is to be used more than once within a test suite, the command should be placed within a test step, to ensure that the same information is provided consistently. The main intention of this guideline is to ensure that MMI commands provided to the user are consistent, and can be changed easily if required.

For example, a test step similar to the one illustrated in table E.7 should be created and attached so that the same information is provided to the user each time the test step is used, and the string to be sent only exists in one place within the test suite.

Table E.7: Example test step to encapsulate AT / MMI commandsDefault behaviour

Test	Test Step Name ts_AT_MMI_Example					
Grou	Group					
Obje	ective		Send an	MMI command instructing the user to insert the USIM of	ard into th	ie UE.
Defa	ult					
	Comments Encapsulate an AT / MMI command within a test step to ensure that the same information is used consistently, and the information only exists in one place within test suite.					
	cription Label	Behaviour Des	crintion	Constraints Ref	Verdict	Comments
1	Label	Ut! MMI_CmdR		ca_MMlCmdReq (" Please insert the USIM card into the UE ")	Verdict	Comments
2		Ut ? MMI_Cmd	Cnf	ca_MMICmdCnf		

Defaults are test steps that are executed when ever a receive event occurs that is not expected. Not expected means that it does not match any of the defined ASP constraints at that point in the test case. The default behaviour used in test case is defined in the test case declaration. They can be defined to stop the test case by calling a standard post-amble or receive the event as OTHERWISE and RETURN back to step where the unexpected event occurred.

A strategy for dealing with unexpected behaviour involving consistent use of defaults should be developed, and applied to test cases wherever possible.

If during a test case or test step it is necessary to change the default behaviour, the ACTIVATE statement may be used.

E.3.18 Use system failure guard timers

A timer should be set at the beginning of each test case to guard against system failure. Behaviour on expiry of this timer should be consistent for all test cases.

E.3.19 Mapping between prose specification and individual test cases

The ATS should map one-to-one between test cases and tests as described in 3GPP TS 34.123-1 [1]. A method for ensuring that the two specifications track each other needs to be defined.

E.3.20 Verdict assignment

E.3.20.1 General

Final verdicts shall only be used to indicate test case errors, or when unexpected UE behaviour occurs such that it not sensible to continue the test. When a test case reaches a leaf node, the test case ends, and the current preliminary verdict is assigned. At least one preliminary verdict shall be assigned for every test case. If a test case terminates and no final or preliminary verdicts have been assigned, the current value of the predefined variable R will be 'none', and a test case error is recorded instead of a final verdict.

Labels shall be used for every line in which a verdict is posted to improve the traceability of the conformance log produced when the test case is executed. These labels should be kept short, since they appear in the dynamic behaviour tables.

All test suites shall make use of a global boolean variable, defined in the common module, called tcv_TestBody. tcv_TestBody is updated within each test case to indicate if the test body is currently being executed. tcv_TestBody is referenced in defaults and test steps to assign a preliminary inconclusive verdict when unexpected events occur outside of the test body, or a preliminary failure verdict when unexpected events occur within the test body.

The initial value in the declaration of the test case variable tcv_TestBody shall be FALSE. The variable will be bound to this value when the ATS is initialized, and will be re-bound to this value after termination of each test case, ready for execution of the next test case.

E.3.20.2 Test cases

A line similar to line 3 in table E.8 shall be used in all test cases to set tcv_TestBody to TRUE. This line shall have the label TBS to indicate the Test Body Start point.

A line similar to line 6 in table E.8 shall be used in all test cases to set tcv_TestBody to FALSE. This line shall have the label TBE[N] to indicate the Test Body End point. A number N (with one or more digits) may optionally be appended to the label to distinguish between multiple test body end points. If the number of possible test sequences makes management of the tcv_TestBody variable too difficult, the variable can be set to TRUE at the beginning of the test. In this case, a comment shall be added to the test case noting that tcv_TestBody is not updated, so verdicts assigned within preambles and postambles will be treated as if they are part of the test body.

Within the test body, preliminary verdicts shall be used to indicate the result of the test purpose. Each behaviour line within the test body containing a preliminary verdict shall have a label of the form TBXN, where X is one of P, F, I for pass, fail, and inconclusive respectively, and N is a number (with one or more digits) used to distinguish multiple TBPs, TBFs, or TBIs in the same test case.

If an unexpected event occurs corresponding to a test case error, a final inconclusive verdict shall be assigned, and the behaviour line shall have a label ERRN, where N is a number used to distinguish multiple ERRs, and ERR indicates that a test case error has occurred. An example of this is provided in the test step clause.

Table E.8 contains an example test case illustrating these concepts.

In case of a failure event of a time consumed test case (longer than 30 minutes), the test case can be stopped by using a final verdict after the execution of the postamble.

Table E.8: Example test case illustrating use of verdicts, labels and tcv_TestBody test case variable

Nr	Label	E	Behaviour Description	Constraints Ref	Verdict	Comments
1		+ts_Preambles				
2	TBS	(tcv_TestBo	ody := TRUE)			1
3		L! Stimulu	S	cs_Stimulus1		
4		+lt_Resp	onse			
5	TBE	(tcv_Tes	stBody := FALSE)		(P)	2
6		+ts_Pc	stambles			
		It_Response				
7	TBP1	L? Response	e	cr_ValidResponse1	(P)	3
8	TBP2	L? Response	e	cr_ValidResponse2	(P)	3
9	TBF1	L? Response	e	cr_InvalidResponse	(F)	4
10	TBI1	L? Response	e	cr_OtherResponse	(I)	5
Detailed comments 1. The behaviour line setting tcv_TestBody to TRUE shall have the label TBS. 2. The behaviour line setting tcv_TestBody to FALSE shall have the label TBE, a can optionally be used to assign a verdict indicating that the test purpose has passed or failed (i.e. if the final behaviour statement in the test body is a tree attachment). 3. The label TBPN is used to indicate that the test purpose has been achieved v Nth possible valid UE behaviour. 4. The label TBFN is used to indicate that the test purpose has not been achieved to the Nth possible failure cause. 5. The label TBIN is used to indicate that the test result is inconclusive for the Nth possible unexpected / unknown event.					TBE, and se has a tree ieved via the achieved, due	

E.3.20.3 Test steps

To promote re-use, test steps shall only assign preliminary verdicts (I) and (F). (P) verdicts shall be managed at the test case level in general, but may be used sparingly within test steps. ETR 141 [37] clause 12.4 recommends that a preliminary pass verdict should be assigned at the leaf of each passing event sequence of the test step. If a test step includes an alternative for unexpected / invalid behaviour, then either a preliminary inconclusive verdict shall be assigned if tcv_TestBody is FALSE, or a preliminary failure verdict shall be assigned if tcv_TestBody is TRUE.

Each behaviour line within the test step containing a preliminary verdict shall have a label of the form TSXN, where X is one of P, F or I for pass, fail, and inconclusive respectively, and N is a number (with one or more digits) used to distinguish multiple TSPs, TSFs, or TSIs in the same test step.

If an unexpected event occurs corresponding to a test case error, a final inconclusive verdict shall be assigned, and the behaviour line shall have a label ERRN, where N is a number used to distinguish multiple ERRs, and ERR indicates that a test case error has occurred.

Table E.9 contains an example test step illustrating these concepts.

Table E.9: Example test step illustrating use of verdicts, labels and tcv_TestBody test case variable

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		[p_Mode = tsc_Mode1]			
2		L! Stimulus	cs_Stimulus1		
3		+It_Response			
4		[p_Mode = tsc_Mode2]			
5		L! Stimulus	cs_Stimulus2		
6		+lt_Response			
7	ERR1	[TRUE]		I	1
		It_Response			
8		L ? Response	cr_ValidResponse1		2
9		L? Response	cr_InvalidResponse		
10	TSI1	[tcv_TestBody = FALSE]		(I)	3
11	TSF1	[tcv_TestBody = TRUE]		(F)	4
Deta	ailed con	 An invalid value for the parameter prinal inconclusive verdict is assigned occurred. If the expected behaviour occurs, the current preliminary verdict is not assigned or postamble (tcv_TestB verdict is assigned. If unexpected / invalid behaviour occurs, the current preliminary verdict is not assigned. If unexpected / invalid behaviour occurs, the current preliminary verdict is not assigned. If unexpected / invalid behaviour occurs, the current preliminary verdict is not assigned. 	d, with a label indicating then the test step complet changed. Excurs, and the current to sody = FALSE) then a pacture, and the current to th	g that a test etes at the le est step is be preliminary in est step is be	case error has eaf node, and eing used as a acconclusive eing used as

E.3.20.4 Defaults

Each behaviour line within a default behaviour table containing a preliminary verdict shall have a label of the form DFXN, where X is one of F or I for fail, and inconclusive respectively, and N is a number (with one or more digits) used to distinguish multiple DFFs, or DFIs in the same test step.

tcv_TestBody shall be referenced from within default behaviour tables to assign the appropriate verdict when unexpected events occur.

Table E.10 contains an example default behaviour table illustrating these concepts.

Table E.10: Example default behaviour table illustrating use of verdicts, labels and tcv_TestBody test case variable

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		L ? Response	cr_IgnoredResponse		1
2		RETURN			
3	DFI1	L ? OTHERWISE [tcv_TestBody = FALSE]		(I)	2
4	DFF1	L ? OTHERWISE [tcv_TestBody = TRUE]		(F)	3
Deta	ailed con	 Valid events that are to be ignored a should have no preliminary verdict a If unexpected data is received in the inconclusive verdict is assigned, an If unexpected data is received in the assigned, and the test case is terminated by the control of the	assigned. preambles or postamble the test case is termina test body, a preliminary	es, a prelimi ited.	nary

See also ETR 141 [37] clauses 11.2, 12.4 and 14.3.

E.3.21 Test suite and test case variables

A default value shall be provided for all test suite and test case variables.

E.3.22 Use of macros is forbidden

The use of macros is forbidden, to support migration to TTCN3.

E.3.23 Support for future Radio Access Technologies

To allow existing test cases to be updated in future to support other radio access technologies, test suites shall make use of a PIXIT parameter px_RAT of type RatType as shown in the following example.

Test	Case Na	ne tc_RAT_Example1				
Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments	
1		START t_Guard(300)				
2		[px_RAT = fdd]				
3		PCO!FDD_PDU	c_FDD_PDU1		FDD specific behaviour	
4	TBP1	PCO ? COMMON_PDU	c_COMMON_PDU1	(P)		
5		$[px_RAT = tdd]$				
6		PCO!TDD_PDU	c_TDD_PDU1		TDD specific behaviour	
7	TBP2	PCO ? COMMON_PDU	c_COMMON_PDU1	(P)		
8		[px_RAT = other_rat]		I	Tests for this RAT not implemented yet	
9	TCE1	[TRUE]			Unexpected px_RAT value	
Detai	Detailed Comments					

In general, alternatives should be used to separate behaviour specific for each RAT, and common behaviour should be re-used as much as possible. A final inconclusive verdict shall be used for any alternatives that have not been implemented yet.

Local trees may be used as shown in the following example to improve re-use of common behaviour.

Test Case Name

Nr	Label	Behaviour Description	Constraints Ref	Verdict	Comments
1		START t_Guard(300)			
2		+lt_RAT_SpecificPart			
3	TBP1	PCO ? COMMON_PDU	c_COMMON_PDU1	(P)	Common behaviour
		It_RAT_SpecificPart			
4		[px_RAT = fdd]			
5		PCO!FDD_PDU	c_FDD_PDU1		FDD specific behaviour
6		$[px_RAT = tdd]$			
7		PCO!TDD_PDU	c_TDD_PDU1		TDD specific behaviour
8	TCE1	[TRUE]		(I)	Unexpected px_RAT value
Detaile	ed Commen	ts			

E.3.24 Managing multiple representations of the same information

When the same information is represented using multiple types within the same test suite, it is necessary to manage conversions between the types, and ensure that the information remains consistent across all of the representations.

For example, IMSI is represented as 'SEQUENCE (SIZE (6..15)) OF Digit' in the RRC ASN.1 definitions, as a HEXSTRING for input as a PIXIT parameter, and as an information element defined in TTCN tabular format for MM.

E.3.24.1 Predefined types

Conversion operations are not required to convert the following TTCN predefined types to their counterparts in ASN.1.

- a) INTEGER predefined type.
- b) BOOLEAN predefined type.

- c) BITSTRING predefined type.
- d) HEXSTRING predefined type.
- e) OCTETSTRING predefined type.
- f) OBJECTIDENTIFIER predefined type.
- g) R_TYPE predefined type.
- h) CharacterString predefined types.

Therefore it is valid to pass a value of type BIT STRING (ASN.1) as a formal parameter of type BITSTRING (TTCN predefined).

E.3.24.2 Simple types

TR 101 666 [27] clause 11.2.1 states:

- "TTCN is a weakly typed language, in that values of any two types which have the same base type are considered to be type compatible (e.g. for the purposes of performing assignments or parameter passing)".

When simple types have restrictions, it is the TTCN author's responsibility to ensure that the restrictions are compatible. The TTCN compiler provides some assistance with this, but the extent of the checking is compiler specific.

E.3.24.3 Structured types

For conversion between more complex representations, test suite operations will generally be required. If the mapping is simple enough, it may be possible to perform the conversion using a test step, which takes the common representation as a parameter, and stores the required representation in a test case variable. This may avoid the need for an extra test suite operation.

E.3.24.4 Conversion responsibility

Two design approaches are possible for deciding where the responsibility of conversion lies: Calling party conversion and called party conversion.

The appropriate option should be selected on a case-by-case basis with the following restrictions:

- If one representation of the information is a PIXIT parameter, and this information must be passed to a test step, the called party conversion option shall be used, and the formal parameter to the test step shall always have the same type as the PIXIT parameter.
- If a test step provides multiple alternatives for different radio access technologies, which require different representations of the same information, the called party conversion convention shall be used. In this case a technology independent representation of the information shall be passed as a parameter, and the test step shall perform the conversion to the appropriate type depending on which RAT is being used.

E.3.24.5 Option 1: Calling party conversions

For this approach, each test step provides an interface based on its internal representation. It is the responsibility of the test case / step attaching the test step to perform the conversion before the attachment.

E.3.24.5.1 Advantages

- The number of calls to conversion operations is minimized.
- The complexity of the attached test steps is reduced because fewer conversions are required than for the called party conversion approach.

E.3.24.5.2 Disadvantages

- Different types are used to transfer the same information across the test step interfaces.
- The complexity of the attaching test steps / cases may be increased because conversions are required before attaching a test step.
- The attaching test steps / cases are responsible for ensuring that multiple representations contain consistent information.

E.3.24.6 Option 2: Called party conversions

In this case, the same representation is used wherever the information must be used as a formal parameter value to a test step, and it is the responsibility of the test step to perform any conversions required.

E.3.24.6.1 Advantages

- The complexity in the attaching test case / step is reduced, which will often improve readability.
- The test step interfaces are cleaner, because the same representation is always passed as a formal parameter.
- Internal representations may be hidden within test steps so that calling parties do not need to have any knowledge of them.

E.3.24.6.2 Disadvantages

- Conversion operations may be called more times than necessary, for example if the same test step is attached twice within one test case.

E.3.25 Assignment using constraint

According to TR 101 666 [27], the Right Hand Side (RHS) of an assignment shall not contain any unbound variables. The matching symbols, AnyValue or AnyOrOmit, in both tabular and ASN.1 constraints shall not be assigned to a test case variable, independent of the type of the test case variable.

E.3.26 Guidelines for use of timers when tolerances are applicable

Timed events within the test suite should implement the timer tolerances specified in 3GPP TS 34.108 [3], clause 4.2.3. It is the TTCN author's responsibility to ensure that appropriate tolerance checks and tolerance values are being used.

NOTE: Tolerances are not applicable to guard timers as described in clause E.3.18 of the present document.

E.3.26.1 Specific situations

The present clause provides recommendations for how to implement timers with tolerances for the following situations:

- a) The timed event must occur before a given time.
- b) The timed event must occur after a given time.
- c) The timed event must occur between two given times.

NOTE: A specific case of this situation is when the desired event occurs at a specific time, plus or minus a tolerance.

E.3.26.2 Example situations

The examples below assume:

- a) The test case variable tcv_Duration contains the timer duration (in terms of the units used in the timer declaration).
- b) The test case variable tcv_Tolerance has been initialized using one of the following assignments (it is the TTCN author's responsibility to select the calculation resulting in the greatest value of tcv_Tolerance. Reference 3GPP TS 34.108 [3], clause 4.2.3):
 - 1) (tcv_Tolerance := tcv_Duration / 10)
 - 2) (tcv_Tolerance := 2 * tcv_TTI + tsc_T_Delta)
 Where tcv_TTI contains the applicable TTI (in ms), and tsc_T_Delta is 55 ms.

NOTE: The timer value parameters used when starting the timers in the examples are recommendations only. Other timer value parameter expressions may be used if appropriate.

E.3.26.2.1 Example of situation 1

Tes	Test Step Name ts_TimerSituation1Example									
Pur	Purpose To demonstrate implementation of a timed event that must occur before a given t									
Nr	Label	Behaviour Description Constraints Ref Verdict Comr								
1			TART t_UpperBound (tcv_Duration + v Tolerance)							
2		+lt_Ti	+lt_TimedEvent 2.							
3	TSP1	CAN	CANCEL t_UpperBound (P) 3.							
4	TSF1	? TIM	EOUT t_UpperBound		(F)	4.				
		It_Time	edEvent							
5		[TRUE	2.							
	Detail Comm		Start the timer, allowing tcv_Tolerance extra units for the timed event to arrive. The timed event is observed. The timed event occurred before the timeout, so cancel the timer, and assign a preliminary pass verdict. The timer expired before the timed event occurred, so assign a preliminary failure verdict.							

E.3.26.2.2 Example of situation 2

Test Step Name ts_TimerSituation2Example											
Purpose To demonstrate implementation of a timed event that must occur after a given time											
Nr	Label		Behaviour Description Constraints Ref			Comments					
1			START t_LowerBound (tcv_Duration - tcv_Tolerance) 1.								
2		? TIME	OUT t_LowerBound			2.					
3		+lt_Tir	nedEvent			3.					
4	TSP1	[TRI	JE]		(P)	3.					
5		+lt_Tim	edEvent			4.					
6	TSF1	CANC	EL t_LowerBound		(F)	4.					
		lt_Timed	Event								
7		[TRUE]									
	Detail Comm		 Start the timer, allowing tcv_Tolerance extra units for the timed event to arrive. The timeout is observed before the timed event. The timed event is observed, so assign a preliminary pass verdict. The timed event occurred before the timeout, so cancel the timer, and assign a preliminary failure verdict. 								

E.3.26.2.3 Example of situation 3

Test S	tep Na	me t	ts_Timer	Situation3Example				
Purpo	se		To demo	onstrate implementation of a timed ev	ent that must oc	cur betw	een two given	
Nr	Label			Behaviour Description	Constraints Ref	Verdic t	Comments	
1		tcv_T STAF	Toleranc	verBound (tcv_Duration -			1.	
2		? TI	IMEOUT	t_LowerBound			2.	
3		+lt	t_TimedE	vent			3	
4	TSP1	С	CANCEL	t_UpperBound		(P)	3.	
5	TSF1	? -	TIMEOU	T t_UpperBound		(F)	4.	
6		+lt_	_TimedEv	vent			5.	
7	TSF2		ANCEL toperBoun	_LowerBound , CANCEL d		(F)		
		It_Tir	medEver	nt				
8		[TRU	JE]					
Detail	ed Con	nmen	2. 3. 4.	 Start the upper and lower bound timers, allowing tcv_Tolerance extra units each side of the expected time for the timed event to arrive. The lower bound timeout is observed before the timed event. The timed event is observed, so cancel the upper bound timer, and a preliminary pass verdict is assigned. The upper bound timer expired before the timed event occurred, so a preliminary failure verdict is assigned. The timed event occurred before the lower bound timer expired, so a preliminary failure verdict is assigned. 				

Annex F (informative): Void

Void.

Annex G (informative): Recommendation of an unique ICS/IXIT electronic exchange format

With standardization of ICS/IXIT file format, same Test Suite Parameter (TSP) files can be used across different System Simulators. The ICS/PIXIT will be simple ASCII text files. The assumption is that the test suite parameters are of simple type definitions only and do not include structured types (clause E.3.14).

G.1 Syntax

The proposed format of the ICS/IXIT file is as follows:

[<Parameter Name> <Parameter Type> <Value>] [<#Comment>]

- At the most one TSP value can be defined in a line.
- The comment starts with # and ends with new line.
- [..] represent OPTIONAL field(s).
- <..> represent MANDATORY field(s).
- Fields will be separated by one or more space characters.

The syntax for different Parameter Types will be as follows:

INTEGER

<Parameter Name> INTEGER <Integer Value>

- BOOLEAN

<Parameter Name> BOOLEAN <Value>

NOTE 1: Here Value will be either 'TRUE' or 'FALSE'.

- BITSTRING

<Parameter Name> BITSTRING <Value>

HEXSTRING

<Parameter Name> HEXSTRING <Value>

- OCTETSTRING

<Parameter Name> OCTETSTRING <Value>

- ENUMERATED

<Parameter Name> ENUMERATED <Integer Value>

IA5String

<Parameter Name> IA5String "<Value>"

NOTE 2: Here Value will be string and is mandatory to put the actual value in double quotes.

G.2 Examples

This clause gives an example of ICS/IXIT file format.

# TSP file version	TSP file version 1.0.0									
px_CS	BOOLEAN	TRUE	# TRUE if Circuit Switched is applicable							
px_PTMSI_Def	OCTETSTRING	12345678	#Default PTMSI							
px_RAT	ENUMERATED	0	<pre>#px_RAT is of Type RatType and is of Type of ENUMERATED {fdd(0), tdd(1)}.</pre>							
px_Region ("Europe", Japan	IA5String ").	"Europe"	#px_Region is of Type Region and is of Type IA5String							
px_PriScrmCode	eA.	INTEGER	100 #px_PriScrmCodeA is of Type PrimaryScramblingCode							
and is of Type			INTEGER (0511).							
px_SRNC_Id	BITSTRING	00000000001	#px_SRNC_Id is of Type SRNC_Identity and is of Type BIT							
STRING			(SIZE(12)).							
px_IMSI_Def	HEXSTRING	00101012345606	3 #Default IMSI							
STRING px_IMSI_Def	HEXSTRING	00101012345606								

Annex H (informative): A-GPS ASN.1 module

```
Lcs-Definitions DEFINITIONS ::=
__***************
-- From ITU-T Rec. X.880 (July/1994)
Code ::= CHOICE {
       local INTEGER,
global OBJECT IDENTIFIER
__*******************
-- From 3GPP TS 29.002
__*****************
NotificationToMSUser ::= ENUMERATED {
   notifyLocationAllowed (0),
   notifyAndVerify-LocationAllowedIfNoResponse (1),
   notifyAndVerify-LocationNotAllowedIfNoResponse (2),
   locationNotAllowed (3) }
    -- exception handling:
    -- At reception of any other value than the ones listed the receiver shall ignore
    -- NotificationToMSUser.
LocationType ::= SEQUENCE {
   locationEstimateType
                                 [0] IMPLICIT LocationEstimateType,
   deferredLocationEventType [1] IMPLICIT DeferredLocationEventType OPTIONAL }
LocationEstimateType ::= ENUMERATED {
   currentLocation (0),
   currentOrLastKnownLocation (1),
   initialLocation (2),
   activateDeferredLocation (3),
   cancelDeferredLocation (4) }
    -- exception handling:
    -- a ProvideSubscriberLocation-Arg containing an unrecognized LocationEstimateType
    -- shall be rejected by the receiver with a return error cause of unexpected data value
DeferredLocationEventType ::= BIT STRING {
   msAvailable (0) } (SIZE (1..16))
    -- exception handling
    -- a ProvideSubscriberLocation-Arg containing other values than listed above in
    -- DeferredLocationEventType shall be rejected by the receiver with a return error cause of
    -- unexpected data value.
\verb|LCSClientExternalID| ::= SEQUENCE | \{
   externalAddress [0] IMPLICIT ISDN-AddressString OPTIONAL,
   extensionContainer [1] IMPLICIT ExtensionContainer OPTIONAL,
LCSClientName ::= SEQUENCE {
   dataCodingScheme [0] IMPLICIT USSD-DataCodingScheme,
   nameString
               [2] IMPLICIT NameString,
    -- The USSD-DataCodingScheme shall indicate use of the default alphabet through the following
encoding
    -- bit 7 6 5 4 3 2 1 0
               0 0 0 0 1 1 1 1
```

```
NameString ::= USSD-String (SIZE (1..maxNameStringLength))
maxNameStringLength INTEGER ::= 63
USSD-DataCodingScheme ::= OCTET STRING (SIZE (1))
    -- The structure of the USSD-DataCodingScheme is defined by the Cell
    -- Broadcast Data Coding Scheme as described in TS 3GPP TS 23.038 [55]
LCSRequestorID ::= SEQUENCE {
    dataCodingScheme [0] IMPLICIT USSD-DataCodin requestorIDString [1] IMPLICIT RequestorIDString,
                            [0] IMPLICIT USSD-DataCodingScheme,
{\tt RequestorIDString ::= USSD-String (SIZE (1..maxRequestorIDStringLength))}
maxRequestorIDStringLength INTEGER ::= 63
LCSCodeword ::= SEQUENCE {
    dataCodingScheme
                            [0] IMPLICIT USSD-DataCodingScheme,
    lcsCodewordString [1] IMPLICIT LCSCodewordString,
LCSCodewordString ::= USSD-String (SIZE (1..maxLCSCodewordStringLength))
maxLCSCodewordStringLength INTEGER ::= 20
LCSServiceTypeID ::= INTEGER (0..127)
    -- the integer values 0-63 are reserved for Standard LCS service types
    -- the integer values 64-127 are reserved for Non Standard LCS service types
USSD-String ::= OCTET STRING (SIZE (1..maxUSSD-StringLength))
   -- The structure of the contents of the USSD-String is dependent
    -- on the USSD-DataCodingScheme as described in TS 3GPP TS 23.038 [25].
maxUSSD-StringLength INTEGER ::= 160
ISDN-AddressString ::= AddressString (SIZE (1..maxISDN-AddressLength))
     - This type is used to represent ISDN numbers.
maxISDN-AddressLength INTEGER ::= 9
AddressString ::= OCTET STRING (SIZE (1..maxAddressLength))
    -- This type is used to represent a number for addressing purposes. It is
    -- composed of
    -- a) one octet for nature of address, and numbering plan indicator.
    -- b) digits of an address encoded as TBCD-String.
           The first octet includes a one bit extension indicator, a
    -- a)
            3 bits nature of address indicator and a 4 bits numbering
           plan indicator, encoded as follows:
    -- bit 8: 1 (no extension)
    -- bits
               765: nature of address indicator
                   000 unknown
                    001 international number
    --
                    010 national significant number
    _ _
                    011 network specific number
                    100 subscriber number
                    101 reserved
                    110 abbreviated number
                    111 reserved for extension
    -- bits 4321: numbering plan indicator
                           unknown
                   0000
                               ISDN/Telephony Numbering Plan (Rec ITU-T E.164)
    --
                    0001
                              spare data numbering plan (ITU-T Rec X.121)
    --
                   0010
                   0011
                   0100
    _ _
                               telex numbering plan (ITU-T Rec F.69)
                                spare
```

```
0110
                               land mobile numbering plan (ITU-T Rec E.212)
                    0111
                                spare
                               national numbering plan
                    1000
    --
                    1001
                               private numbering plan
                    1111
                                reserved for extension
    -- all other values are reserved.
    -- b) The following octets representing digits of an address
            encoded as a TBCD-STRING.
maxAddressLength INTEGER ::= 20
LCS-QoS ::= SEQUENCE {
  horizontal-accuracy
                               [0] IMPLICIT Horizontal-Accuracy OPTIONAL,
   verticalCoordinateRequest [1] IMPLICIT NULL OPTIONAL,
   vertical-accuracy [2] IMPLICIT Vertical-Accuracy OPTIONAL, responseTime [3] IMPLICIT ResponseTime OPTIONAL,
    extensionContainer
                                   [4] IMPLICIT ExtensionContainer OPTIONAL,
Horizontal-Accuracy ::= OCTET STRING (SIZE (1))
    -- bit 8 = 0
    -- bits 7-1 = 7 bit Uncertainty Code defined in 3GPP TS 23.032. The horizontal location
    -- error should be less than the error indicated by the uncertainty code with 67%
    -- confidence.
\label{eq:Vertical-Accuracy} \mbox{ ::= OCTET STRING (SIZE (1))}
    -- bit 8 = 0
    -- bits 7-1 = 7 bit Vertical Uncertainty Code defined in 3GPP TS 23.032.
    -- The vertical location error should be less than the error indicated
    -- by the uncertainty code with 67% confidence.
ResponseTime ::= SEQUENCE {
   responseTimeCategory
                               ResponseTimeCategory,
     -- note: an expandable SEQUENCE simplifies later addition of a numeric response time.
ResponseTimeCategory ::= ENUMERATED {
    lowdelay (0),
    delaytolerant (1),
    . . .
     -- exception handling:
     -- an unrecognized value shall be treated the same as value 1 (delaytolerant)
{\tt SupportedGADShapes} \ ::= \ {\tt BIT} \ {\tt STRING} \ \big\{
    ellipsoidPoint (0),
    ellipsoidPointWithUncertaintyCircle (1),
    ellipsoidPointWithUncertaintyEllipse (2),
    polygon (3),
    ellipsoidPointWithAltitude (4),
    ellipsoidPointWithAltitudeAndUncertaintyElipsoid (5),
    ellipsoidArc (6) } (SIZE (7..16))
     -- A node shall mark in the BIT STRING all Shapes defined in 3GPP TS 23.032 it supports.
     -- exception handling: bits 7 to 15 shall be ignored if received.
Ext-GeographicalInformation ::= OCTET STRING (SIZE (1..maxExt-GeographicalInformation))
    -- Refers to geographical Information defined in 3GPP TS 23.032.
    -- This is composed of 1 or more octets with an internal structure according to
    -- 3GPP TS 23.032
    -- Octet 1: Type of shape, only the following shapes in 3GPP TS 23.032 are allowed:
            (a) Ellipsoid point with uncertainty circle
            (b) Ellipsoid point with uncertainty ellipse
    - -
            (c) Ellipsoid point with altitude and uncertainty ellipsoid
            (d) Ellipsoid Arc
            (e) Ellipsoid Point
    -- Any other value in octet 1 shall be treated as invalid
    -- Octets 2 to 8 for case (a) Ellipsoid point with uncertainty circle
           Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
Uncertainty code 1 octet
                                                3 octets
                                            1 octet
    -- Octets 2 to 11 for case (b) Ellipsoid point with uncertainty ellipse:
```

```
Degrees of Latitude
                                                3 octets
            Degrees of Longitude 3 octets
Uncertainty semi-major axis 1 octet
Uncertainty semi-minor axis 1 octet
Angle of major axis 1 octet
Confidence 1 octet
Ets 2 to 14 for case (c) Ellin
    --
    -- Octets 2 to 14 for case (c) Ellipsoid point with altitude and uncertainty ellipsoid
           Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
Altitude 2 octets
                                                   3 octets
    _ _
            Uncertainty semi-major axis 1 octet
Uncertainty semi-minor axis 1 octet
    ___
           Angle of major axis 1 octet
Uncertainty altitude 1 octet
Confidence 1 octet
    _ _
    _ _
    -- Octets 2 to 13 for case (d) Ellipsoid Arc
           Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
Inner radius 2 octets
Uncertainty radius 1 octet
Offset angle 1 octet
Included angle 1 octet
Confidence 1 octet
Total 2 to 7 for any (a) Ellipsoid Point
    - -
    --
                                                      3 octets
    _ _
    --
    _ _
    -- Octets 2 to 7 for case (e) Ellipsoid Point
         Degrees of Latitude 3 octets
Degrees of Longitude 3 oct
                                                       3 octets
    -- An Ext-GeographicalInformation parameter comprising more than one octet and
    -- containing any other shape or an incorrect number of octets or coding according
    -- to 3GPP TS 23.032 shall be treated as invalid data by a receiver.
    -- An Ext-GeographicalInformation parameter comprising one octet shall be discarded
    -- by the receiver if an Add-GeographicalInformation parameter is received
    -- in the same message.
    -- An Ext-GeographicalInformation parameter comprising one octet shall be treated as
    -- invalid data by the receiver if an Add-GeographicalInformation parameter is not
    -- received in the same message.
maxExt-GeographicalInformation INTEGER ::= 20
    -- the maximum length allows for further shapes in 3GPP TS 23.032 to be included in later
    -- versions of 3GPP TS 29.002
Add-GeographicalInformation ::= OCTET STRING (SIZE (1..maxAdd-GeographicalInformation))
    -- Refers to geographical Information defined in 3GPP TS 23.032.
    -- This is composed of 1 or more octets with an internal structure according to
    -- 3GPP TS 23.032
    -- Octet 1: Type of shape, all the shapes defined in 3GPP TS 23.032 are allowed:
    -- Octets 2 to n (where n is the total number of octets necessary to encode the shape
    -- according to 3GPP TS 23.032) are used to encode the shape itself in accordance with the
    -- encoding defined in 3GPP TS 23.032
    -- An Add-GeographicalInformation parameter, whether valid or invalid, received
    -- together with a valid Ext-GeographicalInformation parameter in the same message
    -- shall be discarded.
    -- An Add-GeographicalInformation parameter containing any shape not defined in
    -- 3GPP TS 23.032 or an incorrect number of octets or coding according to
    -- 3GPP TS 23.032 shall be treated as invalid data by a receiver if not received
    -- together with a valid Ext-GeographicalInformation parameter in the same message.
maxAdd-GeographicalInformation INTEGER ::= 91
    -- the maximum length allows support for all the shapes currently defined in 3GPP TS 23.032
-- Derived from ITU-T Rec. Q.773 (June/1997)
*************
Component ::= CHOICE {
    invoke [1] IMPLICIT Invoke,
             returnResultLast [2] IMPLICIT ReturnResult, returnError [3] IMPLICIT ReturnError, reject [4] IMPLICIT Reject
```

```
-- The used part of Q.773 is almost the same as the component portion of TC messages. The only
-- difference is that returnResultNotLast is not used. (see 24.080, clause 3.6.1)
Invoke ::= SEQUENCE {
            invokeID
                             InvokeIdType,
            linkedID
                           [0] IMPLICIT InvokeIdType OPTIONAL,
            operationCode
                                Code,
                        -- local:116 for lcsNotification
                        -- local:115 for lcs-MOLR
            parameter
                            InvokeArgument OPTIONAL
ReturnResult ::= SEQUENCE {
            invokeID
                            InvokeIdType,
                            SEQUENCE {
            result
                operationCode
                                  Code,
                            -- local:116 for lcsNotification
                             -- local:115 for lcs-MOLR
                parameter
                                         ReturnRes
                                                 } OPTIONAL
            }
ReturnError ::= SEQUENCE {
            invokeID
                            InvokeIdType,
            errorCode
                            Code,
                        -- local:34 for SystemFailure
-- local:36 for UnexpectedDataValue
                        -- local:35 for DataMissing
                         -- local:21 for FacilityNotSupported
                        -- local:19 for SS-SubscriptionViolation
                        -- local:54 for PositionMethodFailure
                            ReturnErrPara OPTIONAL
            parameter
Reject ::= SEQUENCE {
            invokeID CHOICE {
                                        InvokeIdType,
                derivable
                not-derivable
                                   \mathtt{NULL} \} ,
            problem CHOICE {
                                             [0] IMPLICIT GeneralProblem,[1] IMPLICIT InvokeProblem,
                generalProblem
                invokeProblem
                returnResultProblem [2] IMPLICIT ReturnResultProblem,
                returnErrorProblem [3] IMPLICIT ReturnErrorProblem }
                }
InvokeIdType ::= INTEGER (-128..127)
GeneralProblem ::= INTEGER {
                    unrecognizedComponent (0),
                    mistypedComponent (1),
                    badlyStructuredComponent (2) }
                    INTEGER {duplicateInvokeID (0),
InvokeProblem ::=
                    unrecognizedOperation (1),
                    mistypedParameter (2),
                    resourceLimitation (3),
                    initiatingRelease (4),
                    unrecognizedLinkedID (5),
                     linkedResponseUnexpected (6),
                    unexpectedLinkedOperation (7) }
ReturnResultProblem ::= INTEGER {unrecognizedInvokeID (0),
                 returnResultUnexpected (1),
                 mistypedParameter (2) }
ReturnErrorProblem ::= INTEGER {unrecognizedInvokeID (0),
                 returnErrorUnexpected (1),
                 unrecognizedError (2),
                 unexpectedError (3),
                 mistypedParameter (4) }
```

```
--Derived from SS-DataTypes in 3GPP TS 24.080 ver.540
__*********************
Components ::= SET OF Component
InvokeArgument ::= CHOICE {
                            lcsNotification [0] EXPLICIT LocationNotificationArg,
                            lcs-MOLR [1] EXPLICIT LCS-MOLRArg
                                                 }
                ::= CHOICE {
ReturnRes
                            lcsNotifficationRes [0] EXPLICIT LocationNotificationRes,
                            lcsMOLRRes [1] EXPLICIT LCS-MOLRRes
ReturnErrPara
               ::= CHOICE {
                    lcsNotifficationErrPara [0] EXPLICIT LcsNotificationErrPara, lcs-MOLR-ResErrPara [1] EXPLICIT Lcs-MOLR-ErrPara
\verb|LocationNotificationArg| ::= \verb|SEQUENCE| | |
   notificationType [0] IMPLICIT NotificationToMSUser, locationType [1] IMPLICIT LocationType
                                [1] IMPLICIT LocationType,
    locationType
    lcsClientExternalID [2] IMPLICIT LCSClientExternalID OPTIONAL,
                                                             OPTIONAL,
    lcsClientName
                               [3] IMPLICIT LCSClientName
   lcsRequestorID [4] IMPLICIT LCSRequestorID OPTIONAL, lcsCodeword [5] IMPLICIT LCSCodeword OPTIC
                                                                  OPTIONAL,
                               [6] IMPLICIT LCSServiceTypeID OPTIONAL
    lcsServiceTypeID
    }
     -- exception handling:
     -- At reception of an unrecognized notificationType value the receiver shall reject the
     -- operation with a return error cause of unexpected data value.
     -- At reception of an unrecognized locationType value the receiver shall reject the
     -- operation with a return error cause of unexpected data value.
LocationNotificationRes ::= SEQUENCE {
           verificationResponse [0] IMPLICIT VerificationResponse OPTIONAL,
VerificationResponse::= ENUMERATED {
   permissionDenied (0),
   permissionGranted (1),
    ...}
     -- exception handling:
     -- an unrecognized value shall be treated the same as value 0 (permissionDenied)
LcsNotificationErrPara
                          ::= CHOICE {
                                systemFailure [0] EXPLICIT SystemFailureParam,
                                unexpectedDataValue [1] EXPLICIT
                                                                    UnexpectedDataParam
     -- This is derived from information object "lcs-LocationNotification"
LCS-MOLRArg ::= SEQUENCE {
                                                    [0] IMPLICIT
                    molr-Type
                                                                   MOLR-Type,
                    locationMethod
                                                [1] IMPLICIT LocationMethod
                                                                                         OPTIONAL,
                    lcs-QoS [2] IMPLICIT LCS-QoS OF lcsClientExternalID [3] IMPLICIT LCSClientExternalID OPTIONAL,
                                                                                         OPTIONAL,
                                                                                        OPTIONAL,
                    gpsAssistanceData
                                                [4] IMPLICIT ISDN-AddressString
                                            [5] IMPLICIT GPSAssistanceData
                                                                                     OPTIONAL,
    . . . ,
                   supportedGADShapes
                                           [6] IMPLICIT SupportedGADShapes
                                                                                    OPTIONAL
    }
```

```
-- The parameter locationMethod shall be included if and only if the
     -- molr-Type is set to value deCipheringKeys or assistanceData.
     -- The parameter gpsAssistanceData shall be included if and only if the
     -- molr-Type is set to value assistanceData and
     -- locationMethod is set to value assistedGPS.
MOLR-Type ::= ENUMERATED {
    locationEstimate (0), assistanceData (1), deCipheringKeys (2),
    -- exception handling:
    -- an unrecognized value shall be rejected by the receiver with a return error cause of
    -- unexpected data value.
LocationMethod ::= ENUMERATED {
   msBasedEOTD (0), msAssistedEOTD (1), assistedGPS
                                                       (2).
    msBasedOTDOA
                 (3)
    }
    -- exception handling:
    -- When this parameter is received with value msBasedEOTD or msAssistedEOTD and the MS
    -- is camped on an UMTS Service Area then the receiver shall reject it
     -- with a return error cause of unexpected data value.
     -- When this parameter is received with value msBasedOTDOA and the MS
     \mbox{--} is camped on a GSM Cell then the receiver shall reject it with
    -- a return error cause of unexpected data value.
     -- an unrecognized value shall be rejected by the receiver with
     -- a return error cause of unexpected data value.
GPSAssistanceData ::= OCTET STRING (SIZE (1..38))
     -- Octets 1 to 38 are coded in the same way as the octets 3 to 7+2n
     -- of Requested GPS Data IE in 3GPP TS 49.031.
LCS-MOLRRes ::= SEQUENCE {
                               [0] IMPLICIT Ext-GeographicalInformation
                                                                         OPTIONAL,
    locationEstimate
                     [1] IMPLICIT DecipheringKeys
                                                                 OPTIONAL,
    decipheringKeys
    add-LocationEstimate [2] IMPLICIT Add-GeographicalInformation OPTIONAL
    -- Parameters locationEstimate or add-LocationEstimate (one but not both)
     -- shall be included if and only if the
    -- molr-Type in LocationRequestArg was set to value locationEstimate.
     -- Parameter add-LocationEstimate shall not be included
     -- if the supportedGADShapes parameter was not received in the LCS-MOLRArg.
     -- The locationEstimate and the add-locationEstimate parameters shall not be
     -- sent if the supportedGADShapes parameter has been received in LCS-MOLRArg
     -- and the shape encoded in locationEstimate or add-LocationEstimate \,
     -- is not marked as supported in supportedGADShapes.
     -- In such a case LCS-MOLRArg shall be rejected with error
     -- FacilityNotSupported with additional indication
     -- shapeOfLocationEstimateNotSupported.
     -- Parameter decipheringKeys shall be included if and only if the molr-Type
     -- in LocationRequestArg was set to value deCipheringKeys.
DecipheringKeys ::= OCTET STRING (SIZE (15))
     -- Octets in DecipheringKeys are coded in the same way as the octets 3 to 17
     -- of Deciphering Key IE in 3GPP TS 49.031. I.e. these octets contain
     -- Current Deciphering Key, Next Deciphering Key and Ciphering Key Flag.
Lcs-MOLR-ErrPara ::= CHOICE {
                                                         SystemFailureParam,
                systemFailure
                                  [0] EXPLICIT
                unexpectedDataValue [1] EXPLICIT
                                                           UnexpectedDataParam,
               dataMissing [2] EXPLICIT
                                                          DataMissingParam,
                                                          FacilityNotSupParam,
                facilityNotSupported [3] EXPLICIT
                ss-SubscriptionViolation [4] EXPLICIT
                                                           SS-SubscriptionViolationParam,
                positionMethodFailure [5] EXPLICIT
                                                           PositionMethodFailure-Param
     -- This is derived from information object "lcs-MOLR"
```

```
__********************
-- Derived from MAP-Errors 3GPP 29.002
SystemFailureParam ::= CHOICE {
          networkResource
                                                 NetworkResource,
           -- networkResource must not be used in version {\bf 3}
           extensibleSystemFailureParam ExtensibleSystemFailureParam
           -- extensibleSystemFailureParam must not be used in version <3
NetworkResource ::= ENUMERATED {
   plmn (0),
   hlr (1),
   vlr (2),
   pvlr (3),
   controllingMSC (4),
   vmsc (5),
   eir (6),
   rss (7)}
ExtensibleSystemFailureParam ::= SEQUENCE {
           networkResource NetworkResource
                                                     OPTIONAL.
           extensionContainer
                                  ExtensionContainer OPTIONAL
UnexpectedDataParam ::= SEQUENCE {
           extensionContainer
                                  ExtensionContainer OPTIONAL
DataMissingParam ::= SEQUENCE {
           extensionContainer
                                  ExtensionContainer OPTIONAL
                   }
FacilityNotSupParam ::= SEQUENCE {
   extensionContainer
                                                                 ExtensionContainer OPTIONAL,
   shapeOfLocationEstimateNotSupported
                                                          [0] IMPLICIT NULL OPTIONAL,
   neededLcsCapabilityNotSupportedInServingNode
                                                 [1] IMPLICIT NULL OPTIONAL
SS-SubscriptionViolationParam ::= SEQUENCE {
           extensionContainer ExtensionContainer OPTIONAL
                   }
PositionMethodFailure-Param ::= SEQUENCE {
   positionMethodFailure-Diagnostic [0] IMPLICIT PositionMethodFailure-Diagnostic OPTIONAL,
                            [1] IMPLICIT ExtensionContainer
   extensionContainer
                                                                    OPTIONAL.
PositionMethodFailure-Diagnostic ::= ENUMERATED {
   congestion (0),
   insufficientResources (1),
    insufficientMeasurementData (2),
   inconsistentMeasurementData (3),
   locationProcedureNotCompleted (4),
   locationProcedureNotSupportedByTargetMS (5),
   qoSNotAttainable (6),
   positionMethodNotAvailableInNetwork (7),
   positionMethodNotAvailableInLocationArea (8),
    -- exception handling:
   -- any unrecognized value shall be ignored
```

```
ExtensionContainer ::= SEQUENCE {
   privateExtensionList [0] IMPLICIT PrivateExtensionList OPTIONAL,
   pcs-Extensions [1] IMPLICIT PCS-Extensions OPTIONAL,
PrivateExtensionList ::= SEQUENCE SIZE (1..maxNumOfPrivateExtensions) OF
                        PrivateExtension
PrivateExtension ::= SEQUENCE {
   extId     OBJECT IDENTIFIER,
   extType     OCTET STRING     OPTIONAL}
maxNumOfPrivateExtensions INTEGER ::= 10
PCS-Extensions ::= SEQUENCE {...}
END
```

Annex I (Informative): Guidance on test execution

This clause provides the guidance on test execution of the different ATSs.

I.1 Void

I.2 FDD test execution on different frequency bands

I.2.1 FDD Band VI, XIII, XIV

A test case requires more than two radio frequencies shall avoid to execute on FDD Band VI, XIII and XIV. A list is given below.

6.1.1.4, 6.1.1.5, 6.1.1.7, 6.1.1.8, 6.1.1.9, 6.1.2.3, 6.1.2.4, 6.1.2.6, 6.1.2.8, 8.2.6.38, 8.3.1.21, 8.3.2.11, 8.4.1.42, 9.4.2.5, 9.4.5.4.1, 9.4.5.4.6, 9.4.8, 12.4.1.4b, 12.4.2.4

For interBand test case execution on Band VI, the Mobile Country Code of the two cells is set to the same value according to TS 34.108 clause 5.1.1.6. The used test USIM follows TS 34.108 clause 8.3.2.2. This is applied to the test cases: 6.1.2.1a, 6.1.2.10a, 8.1.2.10a, 8.2.1.24a, 8.2.1.34a, 8.2.6.37b, 8.3.1.1a, 8.3.2.1a, 8.4.1.2B, 8.4.1.24A, 8.4.1.25A.

I.2.2 FDD Band XII

A test case requires more than three radio frequencies shall avoid to execute on FDD Band XII. A list is given below. 6.1.1.4, 6.1.1.8, 6.1.1.9, 9.4.5.4.1.

I.3 Void

I.4 InterRAT test execution

The test purpose and the test method of the test case 8.3.7.1, 8.3.7.1a and 8.3.7.1b are same. The test cases differ from each other in the ciphering algorithms applied in the UTRAN and GERAN cell. The necessary test coverage is achieved by executing once according to the following:

8.3.7.1b for UE in Rel-7 or later,

8.3.7.1a for UE in Rel-6, (for earlier UE if A5/3 is supported),

8.3.7.1 for UE in R99, Rel-4 or Rel-5.

Annex J (informative): Change history

Meet-	TSG doc	CR	Rev	Subject	Cat	Old	New	WG doc
ing						vers	vers	
TP-18	TP-020301			Approval of the specification		2.0.0	3.0.0	
				One correction performed in the NAS ATS part (the				
TP-24	-			other ATS parts remain in v.3.6.0)		3.6.0	3.6.1	-
TP-20 TP-21	- TD 020400	-	-	Regeneration of RRC and RLC ATS	F	3.2.0 3.2.1	3.2.1	-
1P-21	TP-030199	-	-	Add new approved TTCN test cases in test case list in Annex A	F	3.2.1	3.3.0	-
TP-23	TP-040044	-	-	Updating Annex A	F	3.4.0	3.5.0	-
TP-23	-	-		Editorial clean-up by ETSI		3.5.0	3.5.1	-
TP-23	-	-		Sections 8.3.28 - 8.3.31 were misplaced		3.5.1	3.5.2	-
TP-19	TP-030051	001	-	Change to test case 9.2.3 required for approval	F	3.0.0	3.1.0	T1-030120
TP-19	TP-030051	002	-	Change to test case 9.2.4 required for approval	F	3.0.0	3.1.0	T1-030121
TP-19	TP-030051	003	-	Change to test case 10.1.3.4.1 required for approval	F	3.0.0	3.1.0	T1-030122
TP-19	TP-030051	004	-	Inclusion of RLC test case 7.2.2.3 to RLC ATS V3.0.0	F	3.0.0	3.1.0	T1-030123
TP-19 TP-19	TP-030051	005 006	-	Inclusion of RLC test case 7.2.2.4 to RLC ATS V3.0.0	F	3.0.0	3.1.0	T1-030124
TP-19	TP-030051	006	-	Inclusion of RLC test case 7.2.2.7 to RLC ATS V3.0.0	F F	3.0.0	3.1.0	T1-030125
TP-19	TP-030051 TP-030051	007	Ι	Inclusion of RLC test case 7.2.3.4 to RLC ATS V3.0.0 Inclusion of RLC test case 7.2.3.5 to RLC ATS V3.0.0		3.0.0	3.1.0	T1-030126 T1-030127
TP-19	TP-030051	009	E	Changes to TS34.123-3 V200 to introduce	F	3.0.0	3.1.0	T1-030127
11 -13	11 -030031		_	TC_8_1_1_4		3.0.0	3.1.0	11-030120
TP-19	TP-030051	010	-	TTCN changes to the approved test cases in V300	F	3.0.0	3.1.0	T1-030129
TP-19	TP-030051	011	1	CR 34.123-3, V300 as T1S030009rev1	F	3.0.0	3.1.0	T1-030260
TP-19	TP-030051	012	-	Indroducing Test Case 8.1.2.7	F	3.0.0	3.1.0	T1-030245
TP-19	TP-030051	013	-	Introduction of Test Case 8.2.1.1	F	3.0.0	3.1.0	T1-030246
TP-19 TP-19	TP-030051 TP-030051	014 015	-	Introduction of Test Case 8.2.3.1 Addition of RRC test case 8.1.9 to RRC ATS V3.0.0	F F	3.0.0	3.1.0 3.1.0	T1-030247 T1-030248
				NOTE: There was a missing TTCN fix in TP-030051. In the TTCN line 6 of TC_8_1_2_1, replace +ts_SendDefSysInfo(tsc_CellA) with +ts_SendSysInfoWithSpecialSIB11(tsc_CellA, tcv_SIB11IntraFreqRepQuantiyRACH). Otherwise, a good UE would be failed at the regression test.				
TP-20	TP-030104	016	-	Test Case 7.1.1.2	F	3.1.0	3.2.0	T1-030397
TP-20	TP-030104	017	-	Test Case 7.1.1.8	F	3.1.0	3.2.0	T1-030399
TP-20	TP-030104	018	-	Test Case 8.1.1.2	F	3.1.0	3.2.0	T1-030401
TP-20	TP-030104	019	-	Test Case 8.1.1.3	F	3.1.0	3.2.0	T1-030403
TP-20	TP-030104	020	-	Test Case 8.1.1.8	F	3.1.0	3.2.0	T1-030411
TP-20	TP-030104	021	-	Test Case 8.2.1.8	F	3.1.0	3.2.0	T1-030413
TP-20	TP-030104	022	-	Test Case 8.2.1.10	F	3.1.0	3.2.0	T1-030415
TP-20	TP-030104	023	-	Test Case 8.1.5.1	F	3.1.0	3.2.0	T1-030425
TP-20	TP-030104	024	-	Test Case 8.1.5.4	F	3.1.0	3.2.0	T1-030427
TP-20	TP-030104	025	-	Test Case 8.2.3.7	F	3.1.0	3.2.0	T1-030429
TP-20	TP-030104	026	-		В	3.1.0	3.2.0	T1-030438
TP-20	TP-030104	027	-	Addition of RLC test case 7.2.3.25 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030440
TP-20	TP-030104	028	-	Addition of RLC test case 7.2.3.14 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030442
TP-20	TP-030104	029	-	Addition of RLC test case 7.2.3.15 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030444
TP-20	TP-030104	030	-	Addition of RLC test case 7.2.3.16 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030446
TP-20	TP-030104	031	-	Addition of RLC test case 7.2.3.33 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030448
TP-20	TP-030104	032	-	Addition of NAS test case 10.1.2.5.1 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030450
TP-20	TP-030104	033	<u> </u>	7.1.1.1	В	3.1.0	3.2.0	T1-030452
TP-20	TP-030104	034	 -	7.1.1.3	В	3.1.0	3.2.0	T1-030454
TP-20	TP-030104	035	-	7.1.1.4	В	3.1.0	3.2.0	T1-030456
TP-20	TP-030104	036	1-	Introduction of Test Case 7.1.1.5	В	3.1.0	3.2.0	T1-030458
TP-20	TP-030104	037	-	Test Case 8.2.3.15	F	3.1.0	3.2.0	T1-030464
TP-20	TP-030104	038	-	Test Case 8.2.3.18	F	3.1.0	3.2.0	T1-030466
TP-20	TP-030104	039	-	Test Case 8.2.3.19	F	3.1.0	3.2.0	T1-030468
TP-20	TP-030104	040		Test Case 12.3.1.2	F	3.1.0	3.2.0	T1-030474

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-20	TP-030104	041	-	Test Case 8.3.3.1	F	3.1.0	3.2.0	T1-030479
TP-20	TP-030104	042	-	Addition of RLC test case 7.2.3.13 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030484
TP-20	TP-030104	043	-	Addition of RLC test case 7.2.3.18 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030486
TP-20	TP-030104	044	-	Addition of RLC test case 7.2.2.5 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030490
TP-20	TP-030104	045	-	Addition of RLC test case 7.2.2.6 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030492
TP-20	TP-030104	046	-	Addition of RLC test case 7.2.3.17 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030495
TP-20	TP-030104	047	-	Addition of RLC test case 7.2.3.20 to RLC ATS V3.0.0	В	3.1.0	3.2.0	T1-030496
TP-20	TP-030104	048	-	Addition of RLC test case 7.2.3.34 to RLC ATS	В	3.1.0	3.2.0	T1-030498
TP-20	TP-030104	049	-		В	3.1.0	3.2.0	T1-030500
TP-20	TP-030104	050	-	Addition of RLC test case 7.2.3.23 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030535
TP-20	TP-030104	051	-	Addition of RLC test case 7.2.3.24 to RLC ATS	В	3.1.0	3.2.0	T1-030537
TP-20	TP-030104	052	-	Addition of RLC test case 7.2.3.26 to RLC ATS	В	3.1.0	3.2.0	T1-030539
TP-20	TP-030104	053	-	Addition of RLC test case 7.2.3.27 to RLC ATS V3.1.0	В	3.1.0	3.2.0	T1-030541
TP-20	TP-030104	054	-	Addition of SM test case 11.3.1 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030576
	TP-030104	055	-	Addition of SM test case 11.3.2 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030577
TP-20	TP-030104	056	-	Addition of GMM test case 12.3.1.5 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030578
TP-20	TP-030104	057	-	Addition of GMM test case 12.7 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030580
	TP-030104	058	1-	Test Case 8.2.1.9	F	3.1.0	3.2.0	T1-030594
	TP-030104	059	-	Test Case 8.2.3.8	F	3.1.0	3.2.0	T1-030596
TP-20	TP-030104	060	-	Test Case 12.3.1.1	F	3.1.0	3.2.0	T1-030614
TP-20	TP-030104	062	-	Test Case 12.9.2	F	3.1.0	3.2.0	T1-030626
TP-20	TP-030104	063	-	Addition of GMM test case 12.3.2.1 to NAS ATS V3.1.0	В	3.1.0	3.2.0	T1-030638
TP-20	TP-030104	064	-	CR for correction of generic test step in RLC ATS V3.1.0	F	3.1.0	3.2.0	T1-030654
TP-20	TP-030104	065	-	ASP Enhancement	F	3.1.0	3.2.0	T1-030665
	TP-030104	066	-	Test Case 8.1.2.2	F	3.1.0	3.2.0	T1-030395
	TP-030104	067	-	Test Case 8.1.2.9	F	3.1.0	3.2.0	T1-030396
TP-20	TP-030110	068	-	Add new approved test cases in test case list in Annex A	F	3.1.0	3.2.0	
	TP-030141	069	-	Test Case 8.1.3.3	F	3.1.0	3.2.0	T1-030460
TP-21	TP-030194	070	-	Corrections to Package 1 test cases in RRC ATS v3.2.1 for PS mode	F	3.2.1	3.3.0	T1-031054
	TP-030194	071	-	Corrections to Package 1 test cases in RRC ATS v3.2.1 for Integrity	F	3.2.1	3.3.0	T1-031055
TP-21	TP-030194	072	-	Corrections to Package 1 test cases in RRC ATS v3.2.1 for configuration of Radio Bearer -3	F	3.2.1	3.3.0	T1-031140
TP-21	TP-030194	073	-		F	3.2.1	3.3.0	T1-031242
TP-21	TP-030194	074	-	CR to 34.123-3, R99, Update and remove unnecessary PIXIT parameters, so they are aligned	F	3.2.1	3.3.0	T1-031278
TP-21	TP-030194	079	-	with the 3GPP conformance TTCN Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030405
TP-21	TP-030194	080	-	TC_8_1_1_5 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030407
TP-21	TP-030194	084	-	TC_8_1_1_6 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030423
TP-21	TP-030194	119		TC_12_2_1_1 Changes to TS34.123-3 V310 to introduce	F	3.1.0	3.3.0	T1-030602
TP-21	TP-030194	120		TC_8_3_4_1 Changes to TS34.123-3 V310 to introduce	· F	3.1.0	3.3.0	T1-030604
TP-21	TP-030194	121		TC_8_3_4_2 Changes to TS34.123-3 V310 to introduce	' F	3.1.0	3.3.0	T1-030606
			-	TC_8_3_4_3				
TP-21	TP-030194	122	-	Changes to TS34.123-3 V310 to introduce TC_8_4_1_1	F	3.1.0	3.3.0	T1-030608
TP-21	TP-030194	124	-	Changes to TS34.123-3 V310 to introduce TC_12_9_1	F	3.1.0	3.3.0	T1-030624
TP-21	TP-030194	127	-	CR to 34.123-3 V310 to introduce test case 7.2.3.19	В	3.1.0	3.3.0	T1-030657
TP-21	TP-030194	128	-		В	3.2.0	3.3.0	T1-030877
TP-21	TP-030194	129	-	CR to 34.123-3 V320 to introduce test case 7.2.2.2	В	3.2.0	3.3.0	T1-030879
TP-21	TP-030194	130	<u> </u>	CR to 34.123-3 V320 to introduce test case 7.2.3.2	В	3.2.0	3.3.0	T1-030881

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-21	TP-030194	131	-	Changes to TS34.123-3 V320 to introduce TC_8_2_3_9	В	3.2.0	3.3.0	T1-030896
TP-21	TP-030194	132	-	Changes to TS34.123-3 V320 to introduce TC_7_2_3_21	F	3.2.0	3.3.0	T1-030897
TP-21	TP-030194	133	-	Changes to TS34.123-3 V320 to introduce TC_7_2_3_22	F	3.2.0	3.3.0	T1-030898
TP-21	TP-030194	134	-	CR to 34.123-3 V320 to introduce test case TC_8_2_6_20	F	3.2.1	3.3.0	T1-030928
TP-21	TP-030194	135	-		В	3.2.1	3.3.0	T1-031016
TP-21	TP-030194	136	-		В	3.2.1	3.3.0	T1-031018
TP-21	TP-030194	137	-	CR to 34.123-3 V320 to introduce test case TC_9_4_5_2	В	3.2.1	3.3.0	T1-031020
TP-21	TP-030194	138	-		В	3.2.1	3.3.0	T1-031022
TP-21	TP-030194	139	-	Changes to TS34.123-3 V321 to introduce TC_8_1_1_7	F	3.2.1	3.3.0	T1-031141
TP-21	TP-030208	140	-	Addition of RRC test case 8.2.2.1 to 34.123-3	F	3.2.1	3.3.0	T1-031280
TP-21	TP-030208	141	-	Addition of RRC test case 8.2.2.11 to 34.123-3	F	3.2.1	3.3.0	T1-031281
TP-21	TP-030208	142	-	Addition of RRC test case 8.2.6.1 to 34.123-3	F	3.2.1	3.3.0	T1-031282
TP-22	TP-030284	142	2	ASP changes and MMI string corrections	F	3.3.0	3.4.0	T1-031707
TP-21	TP-030208	143	-	Addition of RRC test case 8.2.2.17 to 34.123-3	F	3.2.1	3.3.0	T1-031283
TP-21	TP-030208	144	 	Addition of RRC test case 8.2.4.10 to 34.123-3	F	3.2.1	3.3.0	T1-031284
TP-21	TP-030208	145	 	Addition of RRC test case 8.2.6.7 to 34.123-3	F	3.2.1	3.3.0	T1-031285
TP-21	TP-030208	146	1	Addition of RRC test case 8.2.2.8 to 34.123-3	F	3.2.1	3.3.0	T1-031286
TP-21	TP-030208	147	-	Addition of RRC test case 8.2.2.10 to 34.123-3	F	3.2.1	3.3.0	T1-031287
TP-21	TP-030208	148	-	Test case 12.5	F F	3.2.1	3.3.0	T1-031288
TP-21	TP-030209	149	-	CR to 34.123-3 V321 to introduce test case TC_8_2_2_23	-	3.2.1	3.3.0	T1-031289
TP-23	TP-040042	151	-	GERAN ASP changes	F	3.4.0	3.5.0	T1-040412
TP-23	TP-040043	152	-	Addition of NAS test case 9.1 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031755
TP-23	TP-040043	153	1	Addition of NAS test case 9.2.2 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031757
TP-23	TP-040043	154	1	Addition of NAS test case 9.4.1 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031759
TP-23	TP-040043	155		Addition of NAS test case 9.4.2.1 to NAS ATS V3.4.0	B F	3.3.0	3.5.0	T1-031761
TP-21	TP-030209	156	-	CR to 34.123-3 V321 to introduce test case TC_8_2_6_19	_	3.2.1	3.3.0	T1-031296
TP-23	TP-040043	156		Addition of NAS test case 9.4.2.4.1 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031763
TP-21	TP-030209	157	-	CR to 34.123-3 V321 to introduce test case TC_8_2_2_7	F	3.2.1	3.3.0	T1-031297
TP-23	TP-040043	157		Addition of NAS test case 9.4.4 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031765
TP-21	TP-030209	158	-	CR to 34.123-3 V321 to introduce test case TC_8_2_2_9	F	3.2.1	3.3.0	T1-031298
TP-23	TP-040043	158		Addition of NAS test case 9.4.5.3 to NAS ATS V3.4.0	В	3.3.0	3.5.0	T1-031767
TP-21	TP-030209	159	-	CR to 34.123-3 V321 to introduce test case TC_8_3_1_11	F	3.2.1	3.3.0	T1-031299
TP-23	TP-040043	159		Addition of RRC test case 8.3.7.1 to RRC ATS V3.4.0		3.3.0	3.5.0	T1-031771
TP-21	TP-030209	160	-	CR to 34.123-3 V321 to introduce test case TC_8_2_6_8	F	3.2.1	3.3.0	T1-031300
TP-23	TP-040043	160		Addition of RRC test case 8.3.7.2 to RRC ATS V3.4.0	F	3.4.0	3.5.0	T1-031918
TP-21	TP-030209	161	-	CR to 34.123-3 V321 to introduce test case TC_8_4_1_16	F	3.2.1	3.3.0	T1-031301
TP-23	TP-040043	161		Addition of RRC test case 8.3.7.4 to RRC ATS V3.4.0		3.4.0	3.5.0	T1-031772
TP-23	TP-040043	162		Addition of NAS test case 12.2.1.7 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1s040029
TP-23	TP-040043	163		Addition of RAB test case 14.2.27 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040033
TP-23	TP-040043	164		Introducing test case 12_6_1_1 to NASv330	В	3.4.0	3.5.0	T1-031745
TP-23	TP-040043	165		Introducing test case 8.2.4.3 to RRCv330	F	3.4.0	3.5.0	T1-031747
TP-23	TP-040043	166		Introducing test case 8.2.4.4 to RRCv330	F	3.3.0	3.5.0	T1-031749
TP-23	TP-040043	167		Introduction of Package 2 test case 8.3.1.21	F	3.4.0	3.5.0	T1s040049
TP-23	TP-040043	168		Addition of NAS test case 9.4.2.2.1 to NAS ATS V3.4.0	В	3.3.0		T1s040025
TP-23	TP-040043	169		Addition of NAS test case 9.4.2.2.2 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1s040027
TP-23	TP-040043	170		Addition of NAS test case 9.4.9 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1s040014
TP-23	TP-040043	171		Addition of RAB test case 14.2.26 to RAB ATS V3.4.0		3.4.0	3.5.0	T1s040002
TP-23	TP-040043	171			В	3.4.0	3.5.0	T1s040082
TP-23	TP-040043	172		Addition of RAB test case 14.2.4 to TS 34.123-3, V3.4.0	В	3.4.0	3.5.0	T1s040004
TP-23	TP-040043	172		Correction to RRC Package 1 TC 8.2.1.8 and 8.2.1.9 for the mismatch between Radio Bearer setup and PDP context Activation Accept message	В	3.4.0	3.5.0	T1s040071
TP-23	TP-040043	173		Incorrect timer poll value used for SS RLC transmit entity in tcs 8.2.1.8, 8.2.1.9 (Revision of T1-031782)	F	3.3.0	3.5.0	T1-031842

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-23	TP-040043	174		Correction of Poll bit checking in tc 7.2.3.13 (Revision of T1-031839)	F	3.3.0	3.5.0	T1-031921
TP-23	TP-040043	175		Modification to Radio Bearer Release message in to 8.2.3.18 and 8.2.3.19	F	3.3.0	3.5.0	T1-031924
TP-23	TP-040043	176		Maximum allowed UL TX power should not be present in tcs 8.2.2.8, 8.2.2.9 and 8.2.2.23	F	3.3.0	3.5.0	T1-031925
TP-23	TP-040043	177		New C-RNTI should not be present in tc 8.2.6.20	F	3.3.0	3.5.0	T1-031787
TP-23	TP-040043	178		Unnecessary waiting time for reconfiguration in to 8.2.2.23	F	3.3.0	3.5.0	T1-031788
TP-23	TP-040043	179		Modification to validate TI flag and TI value in TCs 11.3.1 and 11.3.2	F	3.3.0	3.5.0	T1-031795
TP-23	TP-040043	180		Change U-RNTI and remove UTRAN DRX cycle length coefficient tc 8.3.3.1	F	3.3.0	3.5.0	T1-031841
TP-23	TP-040043	181	1	Corrections of Status PDU checking in tc 7.2.3.34	F	3.3.0	3.5.0	T1-031786
TP-23	TP-040043	182		Correction of number of negatively acknowledged PDUs in tc 7.2.3.16	F	3.3.0	3.5.0	T1-031789
TP-23	TP-040043	183		Correction of sequence number checking and Verdict assessments in tc 7.2.3.17	F	3.3.0	3.5.0	T1-031790
TP-23	TP-040043	184		Introducing test case 8.3.1.1 to RRCv340	F	3.3.0	3.5.0	T1-031733
TP-23	TP-040043	184		Poll Bit and Status PDU content checking in tc 7.2.3.14	F	3.3.0	3.5.0	T1-031791
TP-23	TP-040043	185		Additional verdicts assigned in tc 7.2.3.20	F	3.3.0	3.5.0	T1-031792
TP-23	TP-040043	186		SERVICE ACCEPT message NOT to be sent to UE in GMM idle state in tc 11.3.1 and 11.3.2	F	3.3.0	3.5.0	T1-031794
TP-23	TP-040043	187		Change to performing integrity protection in tc 12.2.1.1	F	3.3.0	3.5.0	T1-031778
TP-23	TP-040043	188		Correction of Poll bit checking in tc 7.2.3.18	F	3.3.0	3.5.0	T1-031781
TP-23	TP-040019	189		Addition of RAB test case 14.2.29 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040199
TP-23	TP-040019	190		Addition of RAB test case 14.2.31.1 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040198
TP-23	TP-040019	191		Addition of RAB test case 14.2.32.1 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040197
TP-23	TP-040043	192		Introducing test case 8.3.1.22 to RRCv340	F	3.3.0	3.5.0	T1-031797
TP-23	TP-040019	193		Addition of RAB test case 14.4.3 to RAB ATS V3.4.0	В	3.4.0	3.5.0	T1s040196
TP-23	TP-040043	195		Introducing test case 8.2.2.18 to RRCv340	F	3.4.0	3.5.0	T1-031932
TP-23	TP-040043	205			В	3.4.0	3.5.0	T1-031823
TP-23	TP-040043	206		Addition of RRC test case 8.3.2.4 to RRC ATS V3.4.0		3.3.0	3.5.0	T1-031825
TP-23	TP-040043	207		Addition of RRC test case 8.3.2.7 to RRC ATS V3.4.0		3.4.0	3.5.0	T1-031827
TP-23	TP-040043	210		Addition of NAS test case 12.2.2.1 to NAS ATS V3.4.0	F	3.4.0	3.5.0	T1-031936
TP-23	TP-040043	211		Addition of NAS test case 12.4.3.1 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1-031937
TP-23	TP-040043	216		Revised CR for Changes to Introducing test case 8.2.6.9 required for approvalto RRCv340	F	3.4.0	3.5.0	T1s040088
TP-23	TP-040043	220		Addition of RRC test case 8.4.1.17 to RRC ATS V3.4.0	В	3.4.0	3.5.0	T1-031940
TP-23	TP-040043	221		Addition of RRC test case 8.2.2.19 to RRC ATS V3.4.0	В	3.4.0	3.5.0	T1-031939
TP-23	TP-040043	222		Addition of NAS test case 12.2.1.3 to NAS ATS V3.4.0	В	3.4.0	3.5.0	T1-031938
TP-23	TP-040043	224		Addition of RRC test case 8.3.1.31 to RRC ATS V3.4.0	В	3.3.0	3.5.0	T1-031909
TP-23	TP-040043	226		Validation of TMSI status in ATTACH REQUEST message for tc 12.3.1.5	F	3.4.0	3.5.0	T1-031913
TP-23	TP-040043	227		Validation of optional old PTMSI signature in ATTACH REQUEST message for tc 12.2.1.1	F	3.3.0	3.5.0	T1-031914
TP-23	TP-040043	230			F	3.3.0	3.5.0	T1-031922
TP-23	TP-040043	232		To add verified GCF package 1 RRC test case 8.3.1.3 to the approved RRC ATS V3.4.0		3.4.0	3.5.0	T1-031926
TP-23	TP-040043	233		Introducing test case 8.3.1.4 to RRCv340	F	3.4.0	3.5.0	T1s040087
TP-24	TP-040117	233		Clarification of Section 8.5.1 Authentication: Explicitly stating that Authentication after IDT is an	F	3.5.2	3.6.0	T1-040761
TD CC	TD 040040	00.4	1	optional/dependent procedure.	_	0.4.0	0.5.0	T4 004000
TP-23 TP-24	TP-040043 TP-040117	234 234		Introducing test case 12_4_2_1 to NASv340 GERAN generic procedures and TTCN encoding	F F	3.4.0 3.5.2	3.5.0	T1-031930 T1-040940
TD 55	TD 00000	05:		rules for CSN.1 specific encoding	_	0.00	0	<u> </u>
TP-22	TP-030285	251	-	Updating Annex A	F	3.3.0	3.4.0	- T4 004700
TP-22	TP-030284	252	-	Security ASP changes	F	3.3.0	3.4.0	T1-031732
TP-24	TP-040118	255			В	3.5.1	3.6.0	T1s040295
TP-24	TP-040118	256		Addition of RAB test case 14.2.49.1 to RAB ATS V3.5.1	В	3.5.1	3.6.0	T1s040254
TP-24	TP-040118	257		Addition of GCF P1 test case 8.4.1.2 to RRC ATS	В	3.5.1	3.6.0	T1s040252

ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
				V3.5.1		10.0	10.0	
TP-24	TP-040118	258		Revised CR for P3 NAS test case 13.2.2.1 to NAS ATS V3.5.1 (revision of T1-040239	В	3.5.1	3.6.0	T1s040330
TP-24	TP-040118	259		Revised CR for P3 NAS test case 13.2.2.2 to NAS ATS V3.5.1 (revision of T1-040241)	В	3.5.1	3.6.0	T1s040331
TP-24	TP-040118	260		Addition of GCF P3 test case 8.4.1.31 to RRC ATS v3.5.1	В	3.5.1	3.6.0	T1s040285
TP-24	TP-040118	261		Revised CR for addition of GCF P2 test case 12.4.2.2 to NAS ATS V3.5.1	В	3.5.1	3.6.0	T1s040283
TP-24	TP-040118	262		Addition of RRC test case 8.3.2.11 to RRC ATS V3.5.1	В	3.5.1	3.6.0	T1s040262
TP-24	TP-040118	263		Addition of RRC test case 8.4.1.30 to RRC ATS V3.5.1	В	3.5.1	3.6.0	T1s040260
TP-24	TP-040118	264		Addition of RRC test case 8.4.1.29 to RRC ATS V3.5.1	В	3.5.1	3.6.0	T1s040258
TP-24	TP-040118	265		Addition of RAB test case 14.2.7a to RAB ATS V3.5.1	В	3.5.1	3.6.0	T1s040249
TP-24	TP-040118	266		Addition of RAB test case 14.2.5a to RAB ATS V3.5.1	В	3.5.1	3.6.0	T1s040247
TP-24	TP-040118	267		Addition of RAB test case 14.2.4a to RAB ATS V3.5.1		3.5.1	3.6.0	T1s040245
				Addition of GCF P1 test case 12.4.1.1a to NAS ATS				
TP-24	TP-040118	268		V3.5.1	В	3.5.1	3.6.0	T1s040266
TP-24	TP-040118	269		Test Case 13.2.1.1	В	3.5.1	3.6.0	T1s040237
				Addition of GCF P3 test case 10.1.2.6.6 to NAS ATS				
TP-24	TP-040118	270		V3.4.0 Addition of GCF P3 test case 10.1.2.7.2 to NAS ATS	В	3.4.0	3.6.0	T1s040234
TP-24	TP-040118	271		V3.4.0 Addition of GCF P3 test case 10.1.2.5.5 to NAS ATS	В	3.4.0	3.6.0	T1s040233
TP-24	TP-040118	272		V3.4.0	В	3.4.0	3.6.0	T1s040231
TP-24	TP-040118	273		Addition of GCF P3 test case 10.1.2.6.2 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040232
TP-24	TP-040118	274		Addition of GCF P3 test case 10.1.2.4.10 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040230
TP-24	TP-040118	275		Addition of GCF P3 test case 10.1.2.3.3 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040229
TP-24	TP-040118	276		Addition of NAS test case 8.3.1.2 to RRC ATS V3.4.0 (revision of T1-031735)	В	3.4.0	3.6.0	T1s040226
TP-24	TP-040118	277		Addition of NAS test case 8.3.1.5 to RRC ATS V3.4.0 (revision of T1-031807)	В	3.4.0	3.6.0	T1s040227
TP-24	TP-040118	278		Addition of NAS test case 8.3.1.6 to RRC ATS V3.4.0 (revision of T1-031809)	В	3.4.0	3.6.0	T1s040228
TP-24	TP-040118	279		Addition of GCF P3 test case 14.2.12 to RAB ATS V3.4.0	В	3.4.0	3.6.0	T1s040225
TP-24	TP-040118	280		Addition of NAS test case 10.1.3.3.1 to NAS ATS V3.4.0 (Revision of T1s040170)	В	3.4.0	3.6.0	T1s040222
TP-24	TP-040118	281			В	3.4.0	3.6.0	T1s040223
TP-24	TP-040118	282		Addition of GCF P2 test case 8.4.1.18 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040215
TP-24	TP-040118	283		Addition of GCF P2 test case 8.4.1.19 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040216
TP-24	TP-040118	284		Addition of NAS test case 10.1.3.5.6 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040213
TP-24	TP-040118	285		Addition of NAS test case 10.1.2.2.2 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040209
TP-24	TP-040118	286		Addition of RRC test case 8.4.1.26 to RRC ATS V3.4.0	В	3.4.0	3.6.0	T1s040207
				Addition of GCF P1 test case 8.4.1.3 to RRC ATS				
TP-24	TP-040118	287		V3.4.0	В	3.4.0	3.6.0	T1s040205
TP-24	TP-040118	288	1	Addition of RRC test case 8.3.7.3 to RRC ATS V3.4.0	R	3.4.0	3.6.0	T1-040084
TP-24	TP-040118	289			В	3.4.0	3.6.0	T1s040204
TP-24	TP-040118	290		Introducing package 2 test case 8.3.1.9 to RRCv340 (revision of T1-031737)	В	3.4.0	3.6.0	T1s040203
TP-24	TP-040118	291		Addition of NAS test case 10.1.2.1.1 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040178
TP-24	TP-040118	292		Addition of NAS test case 10.1.3.3.2 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040172
	TP-040118	293		Addition of NAS test case 10.1.3.3.4 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040174
1 P-24	1. 2.0.10	1_30		Addition of NAS test case 10.1.2.7.3 to NAS ATS				
TP-24 TP-24	TP-040118	294		V3.4.0	В	3.4.0	3.6.0	T1s040161
TP-24 TP-24 TP-24	TP-040118	294 295		V3.4.0 Addition of NAS test case 10.1.2.5.2 to NAS ATS V3.4.0	B B	3.4.0	3.6.0	T1s040161 T1s040149

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
ilig				V3.4.0		VCIS	VCIS	
				Addition of RAB test case 14.2.23b to RAB ATS				
TP-24	TP-040118	297		V3.4.0	В	3.4.0	3.6.0	T1s040067
TP-24	TP-040118	298		Addition of RAB test case 14.2.23c to RAB ATS V3.4.0	В	3.4.0	3.6.0	T1s040069
TP-24	TP-040118	299		Addition of RAB test case 14.2.14.1 to RAB ATS V3.4.0	В	3.4.0	3.6.0	T1s040055
TP-24	TP-040118	200		Addition of RAB test case 14.2.14.2 to RAB ATS V3.4.0	Б	3.4.0	3.6.0	T1s040057
TP-24	TP-040118	300 301		Addition of RAB test case 14.2.15 to RAB ATS V3.4.0	B R	3.4.0	3.6.0	T1s040057
TP-24	TP-040118	302		Addition of RAB test case 14.2.16 to RAB ATS V3.4.0		3.4.0	3.6.0	T1s040061
TP-24	TP-040118	303		Addition of RAB test case 14.2.17 to RAB ATS V3.4.0		3.4.0	3.6.0	T1s040063
				Addition of RAB test case 14.2.13.2 to RAB ATS				
TP-24	TP-040118	304		V3.4.0 Addition of NAS test case 10.1.2.4.9 to NAS ATS	В	3.4.0	3.6.0	T1s040053
TP-24	TP-040118	305		V3.4.0 Addition of NAS test case 10.1.2.4.4 to NAS ATS	В	3.4.0	3.6.0	T1s040129
TP-24	TP-040118	306		V3.4.0	В	3.4.0	3.6.0	T1s040121
TP-24	TP-040118	307		Addition of NAS test case 10.1.2.4.6 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040123
TP-24	TP-040118	308		Addition of NAS test case 10.1.2.6.3 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040139
TP-24	TP-040118	309		Addition of NAS test case 10.1.2.4.7 to NAS ATS V3.4.0	В	3.4.0	3.6.0	T1s040099
				Addition of NAS test case 10.1.2.4.8 to NAS ATS				
TP-24	TP-040118	310		V3.4.0 Addition of NAS test case 10.1.2.9.1 to NAS ATS	В	3.4.0	3.6.0	T1s040101
TP-24	TP-040118	311		V3.4.0 Addition of NAS test case 10.1.2.3.1 to NAS ATS	В	3.4.0	3.6.0	T1s040107
TP-24	TP-040118	312		V3.4.0 Addition of NAS test case 10.1.2.4.3 to NAS ATS	В	3.4.0	3.6.0	T1s040091
TP-24	TP-040118	313		V3.4.0	В	3.4.0	3.6.0	T1s040093
TP-24	TP-040118	314			В	3.4.0	3.6.0	T1s040080
TP-24	TP-040118	315		Addition of NAS test case 9.4.8 to NAS ATS V3.4.0 Addition of NAS test case 12.6.1.2 to NAS ATS	В	3.4.0	3.6.0	T1s040023
TP-24	TP-040118	316		V3.4.0 Quality of Service (QoS) initialisation when setting up	В	3.4.0	3.6.0	T1s040016
TP-24	TP-040119	317		a PS call	F	3.5.1	3.6.0	T1s040320
TP-24	TP-040119	318		Correction to RRC Package 2 TC 8.3.1.4 to stop the timer t_WaitS after receiving expected UTRAN MOBILITY INFORMATION CONFIRM message from UE.	F	3.5.1	3.6.0	T1s040322
				Corrections to RRC package 1 and 2 test cases from sections 8.1.x, 8.2.x and 8.3.x to add a delay before SS reconfigures MAC according to the new C-RNTI				
TP-24	TP-040119	319		or U-RNTI assigned to UE.	F	3.5.1	3.6.0	T1s040323
TP-24	TP-040119	320		Correction to RRC TC 8.3.1.3 on the contents of CELL UPDATE CONFIRM message	F	3.5.1	3.6.0	T1s040324
11 27	11 040110	020		Correction to RRC Package 1 TC 8.1.1.2 and 8.1.1.3		0.0.1	0.0.0	110040024
TP-24	TP-040119	321		to add delay before switching to CELL_PCH or URA PCH	F	3.5.1	3.6.0	T1s040321
TP-24	TP-040119	322		Correction to Package 2 GMM test case 12.2.1.3 for supporting USIM removal without power off	F	3.5.2	3.6.0	T1s040289
17-24	17-040119	322		Correction to Package 3 NAS CC test cases	Г	3.3.2	3.0.0	115040209
TP-24	TP-040119	323		10_1_2_5_5, 10_1_2_6_2 and 10_1_2_7_2 to validate the current TI value.	F	3.5.1	3.6.0	T1s040297
11 27	11 040110	020		Correction to Package 3 NAS CC test cases		0.0.1	0.0.0	110040207
TP-24	TP-040119	324		10.1.2.6.6; introducing PIXIT parameter for UE Call waiting support.	F	3.5.1	3.6.0	T1s040298
TP-24	TP-040119	325		Correction to Package 1 SM test case 11.1.1.1 in handling Modify PDP Context procedure.	F	3.5.1	3.6.0	T1s040299
				Correction to Radio Bearer setup message for Package 1 RAB test case 14.2.13.1 and package 2				
TP-24	TP-040119	326		RAB test case 14.2.15.	F	3.5.1	3.6.0	T1s040300
TP-24	TP-040119	327		Correction to Package 3 RAB test case 14.2.14.1 Radio Bearer setup in the SS.	F	3.5.1	3.6.0	T1s040301
				Correction to RRC TC 8.2.2.18 and 8.2.2.17 on				
TP-24	TP-040119	328		contents of radio bearer reconfiguration message and comments in test steps of TC 8.2.2.18.	F	3.5.1	3.6.0	T1s040302
				Correction to RRC Package 2 TC 8.3.1.3 to delete the Radio Bearer BCCH mapped to				
TP-24	TP-040119	329		FACH(RB_BCCH_FACH) in the old cell before configuring in the new cell.	F	3.5.1	3.6.0	T1s040303
11 -24	11 040118	UZ 3	ь	pormganing in the new cell.	<u>''</u>	0.0.1	0.0.0	113040303

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-24	TP-040119	330		Correction to Package 3 NAS MM test case 9.4.2.2.2 to disable cell C ATT flag	F	3.5.1	3.6.0	T1s040304
TP-24	TP-040119	331		Correction to Package 2 NAS MM test case 9.4.9; introducing postamble to remove PLMN2 from USIM forbidden PLMN list.	F	3.5.2	3.6.0	T1s040305
TP-24	TP-040119	332		Modification to RLC 7.2.3.33 TTCN to meet Test Procedure 'f' in Prose 34.123-1-571.	F	3.5.1	3.6.0	T1s040306
				Correction to Package 3 NAS CC test case 10.1.2.7.3 for assigning FAIL verdict on receiving unexpected				
TP-24	TP-040119	333		RELEASE message. Correction to RRC TC 8.2.2.10 on contents of radio	F	3.5.1	3.6.0	T1s040288
TP-24	TP-040119	334		bearer reconfiguration message. Correction to RRC Package 2 TC 8.4.1.16 and	F	3.5.1	3.6.0	T1s040291
TP-24	TP-040119	335		8.4.1.17 for contents of SIB 11 and Measurement reporting Interval.	F	3.5.1	3.6.0	T1s040292
				Correction to common test step "ts_SS_2_FACH_1_RACH_ModifyDCH_Cfg" of RRC ATS to release unused RLC entity, related to test				
TP-24	TP-040119	336		cases 8.4.1.18 and 8.4.1.19	F	3.5.1	3.6.0	T1s040293
TP-24	TP-040119	337		Correction to Package 1 SM TC 11.1.1.1, 11.3.1 and 11.3.2 to harmonize the timer handling and to account for T1-040514, T1s040243 and T1s040244 concerning RAB release and detaching.	F	3.5.1	3.6.0	T1s040287
TP-24	TP-040119	338		Correction to Approved Package 1 TC 11.1.1.1	F	3.5.0	3.6.0	T1S040284
TP-24	TP-040119	339		Correction to package 2 TC 9.1 to handle PS attach and detach.	F	3.5.2	3.6.0	T1s040282
TP-24 TP-24	TP-040119 TP-040119	340 341		Correction to Approved RRC Package 1 TC 8.4.1.1	F F	3.5.0 3.5.1	3.6.0	T1s040279
TP-24	TP-040119	341		Changes to the test step ts_CC_InitTCV_MO Correction to Package 1 GMM test case 12.3.1.2 for	Г	3.5.1	3.6.0	T1s040277
TP-24	TP-040119	342		P-TMSI signature check at Step 12.	F	3.5.1	3.6.0	T1s040278
TP-24	TP-040119	343		Regression error corrections to wk12 and wk15. Correction to Package 2 MM TC 9.4.9 to handle	F	3.5.1	3.6.0	T1s040274
TP-24	TP-040119	344		situation when pc_PS is TRUE also.	F	3.5.2	3.6.0	T1s040273
TP-24	TP-040119	345		Correction to GFC P1 RAB test case 14.2.4	F	3.5.1	3.6.0	T1s040272
TP-24	TP-040119	346		Correction to GFC P3 RAB test cases 14.2.26 and 14.2.27	F	3.5.1	3.6.0	T1s040251
TP-24	TP-040119	347		Correction to Approved RRC Package 1 TC 8.3.4.2 and 8.3.4.3	F	3.5.0	3.6.0	T1s040235
TP-24	TP-040119	348		Correction to Approved RRC Package 1 TC 8.3.4.1	F	3.5.0	3.6.0	T1s040224
				Correction to RRC Package 2 TC 8.2.2.7 for radio bearer messages with specified IEs and correction of default PS RAB and SRBs RLC configurations in				
TP-24	TP-040119	349		RRC ATS. (Revision of T1s040165). Correction to NAS Package 1 TC 12.5 for selecting UE operation mode C only when mode A not	F	3.4.0	3.6.0	T1s040219
TP-24	TP-040119	350		supported and validating RRC connection establishment cause	F	3.4.0	3.6.0	T1s040220
TP-24	TP-040119	351		Correction to RRC Package 1 TC 8.1.2.1 modification to UE system specific capabilities (Revision of T1s040078).	F	3.4.0	3.6.0	T1s040221
TP-24	TP-040119	352		Error correction lists to iWD-wk04 and iWD-wk07	F.	3.4.0	3.6.0	T1s040188
TP-24	TP-040119	353		TTCN corrections to Generic Setup Procedures	F	3.4.0	3.6.0	T1s040189
TP-24	TP-040119	354		General correction to approved GCF P1 (Cell FACH) MAC test cases Correction to RRC Package 1 TC 8.2.1.8 and 8.2.1.9	F	3.4.0	3.6.0	T1s040185
TP-24	TP-040119	355		for the mismatch between Radio Bearer setup and PDP context Activation Request message (Revision of T1s040071).	F	3.4.0	3.6.0	T1s040163
TP-24	TP-040119	356		Modification to ATT flag usage in TC 12.3.1.5. (Resubmission of T1-031923 on v3.4.0)	F	3.4.0	3.6.0	T1s040164
TP-24	TP-040119	357		Corrections to RRC Package 1 TC 8.1.2.9 to modify timers and RRC Setup Request Constraints	F	3.4.0	3.6.0	T1s040077
TP-24	TP-040119 TP-040123	358		Corrections to Package 1 test case tc_8_1_1_1	F	3.4.0	3.6.0	T1s040079
TP-24 TP-25	TP-040123 TP-040162	359 359		Updating Annex A ASP updating and other corrections	F F	3.5.2 3.6.1	3.6.0	- T1-041407
TP-25	TP-040149	360	_	Addition of GCF P3 test case 16.1.1 to SMS ATS V3.5.1	В	3.5.1	3.7.0	T1s040264
TP-25	TP-040149	361	_	Addition of GCF P3 test case 16.1.9.1 to SMS ATS V3.5.1	В	3.5.1	3.7.0	T1s040307
TP-25	TP-040149	362	_	Addition of GCF P3 test case 16.1.9.2 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040309
TP-25	TP-040149	363	-	Addition of GCF P3 test case 16.1.10 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040311

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New	WG doc
TP-25	TP-040149	364	-	Addition of GCF P3 test case 16.2.1 to SMS ATS V3.6.1	В	3.5.1	3.7.0	T1s040313
TP-25	TP-040149	365	-	Addition of GCF P3 test case 16.2.2 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040315
TP-25	TP-040149	366	-	Addition of GCF P3 test case 16.2.10 to SMS ATS V3.5.1	В	3.6.0	3.7.0	T1s040317
TP-25	TP-040149	367	-	Addition of P2 NAS test case 9.4.2.4 proc 2 to NAS ATS V3.5.1 (revision of T1-040109)	В	3.6.0	3.7.0	T1s040329
TP-25	TP-040149	368	-	Addition of NAS test case 12.4.2.5a.2 to NAS ATS V3.5.1	В	3.5.1	3.7.0	T1s040337
TP-25	TP-040149	369	-	Revised CR for addition of GCF P3 test case 8.2.4.1a to RRC ATS V3.5.1	В	3.5.1	3.7.0	T1s040339
TP-25	TP-040149	370	-	Revised CR for Addition of P2 test case 6.2.1.1 to IR_U ATS v3.5.1 (Revision of T1s040325)	В	3.6.1	3.7.0	T1s040345
TP-25	TP-040149	371	-	Revised CR for Addition of P2 test case 6.2.1.6 to IR_U ATS v3.5.1 (Revision of T1s040327)	В	3.5.1	3.7.0	T1s040346
TP-25	TP-040149	372	-	Addition of RRC test case 8.4.1.40 to RRC ATS V3.5.1	В	3.5.1	3.7.0	T1s040352
TP-25	TP-040149	373	-	Addition of RRC Package 3 test case 8.4.1.33 to IR_U ATS V3.5.1	В	3.5.1	3.7.0	T1s040358
TP-25	TP-040149	374	-	Revised CR for addition of GCF P3 test case 16.1.2 to SMS ATS V3.5.1	В	3.6.1	3.7.0	T1s040360
TP-25	TP-040149	375	-	Revised CR for the addition of GCF P3 test case 8.4.1.35 to IR_U ATS V3.5.1	В	3.6.1	3.7.0	T1s040361
TP-25	TP-040149	376	-	CR for the addition of GCF P3 test case 8.4.1.36 to IR_U ATS V3.6.1	В	3.6.1	3.7.0	T1s040364
TP-25	TP-040149	377	-	Addition of GCF P3 test case 8.3.2.12 to RRC ATS V3.6.1	В	3.6.1	3.7.0	T1s040385
TP-25	TP-040149	378	-	Addition of RAB Package 3 test case 14.2.57 to RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040387
TP-25	TP-040149	379	-	Addition of GCF P3 test case 14.2.58 to RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040395
TP-25	TP-040149	380	-	Addition of GCF P1 test cases 8.1.7.1 to RRC ATS v3.6.1	В	3.6.1	3.7.0	T1s040398
TP-25	TP-040149	381	-	Addition of GCF P1 test case 8.1.7.2 to RRC ATS v3.6.1	В	3.5.1	3.7.0	T1s040400
TP-25	TP-040149	382	-	Addition of RAB Package 2 test case 14.4.2.1 to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040430
TP-25	TP-040149	383	-	Addition of RAB Package 3 test case 14.2.38a to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040432
TP-25	TP-040149	384	-	Addition of RAB Package 3 test case 14.2.38e to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040433
TP-25	TP-040149	385	-	Addition of RAB Package 2 test case 14.4.2.2 to RAB ATS V3.6.1	В	3.5.1	3.7.0	T1s040462
TP-25	TP-040149	386	-	Addition of RAB Package 2 test case 14.4.2.3 to RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040464
TP-25	TP-040149	387	-	Addition of RAB test case 14.2.51.1 to RAB ATS V3.6.0	В	3.6.0	3.7.0	T1s040466
TP-25	TP-040149	388	-	Addition of RAB test case 14.2.51a.1 to RAB ATS V3.6.0	В	3.6.0	3.7.0	T1s040468
TP-25	TP-040149	389	-	Addition of P3 test case 8.4.1.27 to RRC ATS V3.6.1 Revision CR to introduce GCF P3 Test Case 8.4.1.24	В	3.6.1	3.7.0	T1s040470
TP-25	TP-040149	390	-	to ATS v3.6.0 Revision CR to introduce GCF P3 Test Case 8.4.1.25	В	3.5.1	3.7.0	T1s040482
TP-25 TP-25	TP-040149 TP-040149	391 392	- -	to ATS v3.6.0 Addition of NAS test case 9.4.7 to NAS ATS V3.6.0	B B	3.5.1 3.6.1	3.7.0	T1s040483 T1s040513
				Addition of GCF P3 test case 8.4.1.34 to IR_U ATS	_			
TP-25 TP-25	TP-040149 TP-040148	393 394	-	v3.6.1 TTCN correction to P2 test case 8.1.10.1	B F	3.6.1 3.5.2	3.7.0	T1s040479 T1s040236
TP-25	TP-040148	395	1-	Correction to Approved RRC Package 1 TC 8.3.1.1	F	3.5.1	3.7.0	T1s040334
TP-25	TP-040148	396	_	Correction to Package 2 NAS MM test case 9.4.2.2.1 to validate of LOCATION UPDATE REQUEST message and disable ATT flag.	F	3.5.1	3.7.0	T1s040335
TP-25	TP-040148	397	-	Correction to RRC Package 2 TC 8.4.1.18 and TC 8.4.1.19 for inconsistency in System Information Block 12.	F	3.5.1	3.7.0	T1s040336
TP-25	TP-040148	398	-	Correction to Approved Package 1 RRC TC 8.1.2.2	F	3.5.1	3.7.0	T1s040341
TP-25	TP-040148	399	ļ	Corrections to RRC test case 6.2.1.1	F	3.5.1	3.7.0	T1s040347
TP-25 TP-25	TP-040148 TP-040148	400 401	 -	Corrections to RRC test case 6.2.1.6	F F	3.5.1 3.5.0	3.7.0	T1s040349
TP-25	TP-040148	401	[Correction to Approved RRC Package 1 TC 8.3.4.2 Correction to Approved RRC Package 2 TC 8.2.4.3	F	3.5.0	3.7.0 3.7.0	T1s040351 T1s040363
	TP-040148	403	+	Correction to Approved RRC Package 1 TC 8.3.4.3	F.	3.6.0	3.7.0	T1s040366

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-25	TP-040148	404	-	Regression error corrections to wk17, wk20 and wk23.	F	3.6.1	3.7.0	T1s040367
TP-25	TP-040148	405	1-	TTCN Correction to GCF P2 IR_U 8.3.7.1 & 8.3.7.4	F	3.6.0	3.7.0	T1s040374
TP-25	TP-040148	406	-	Correction to Package 2 NAS CCMM test cases 9.4.8; for removal of 'USIM removal possible while UE is powered' support.	F	3.6.1	3.7.0	T1s040375
TP-25	TP-040148	407	-	Correction to RRC TC 8.3.2.4 on value of the wait timer started for the UE to enter Idle mode.	F	3.6.1	3.7.0	T1s040376
TP-25	TP-040148	408	_	Correction to RRC Package 2 TC 8.2.1.9 to handle	F	3.6.1	3.7.0	T1s040377
				cell update before configuring radio bearer from DCH to FACH.				110010071
TP-25	TP-040148	409	-	Correction to RRC TC 8.2.6.19 and 8.2.6.20 to add delay before switching to CELL_PCH/URA_PCH	F	3.6.1	3.7.0	T1s040378
TP-25	TP-040148	410	-	Correction to Package 3 RAB test case 14.2.27, 14.2.29, 14.2.31.1and 14.2.32.1 for the dl_TxPower in DL DPCH Info during Radio Bearer Setup at the SS.	F	3.6.1	3.7.0	T1s040383
TP-25	TP-040148	411	-	Correction to Package 2 RAB test case 14.4.3	F	3.6.1	3.7.0	T1s040384
TP-25	TP-040148	412	-	Correction to test steps "ts_ReceiveFirstSDUs_RB10" and "ts_ReceiveFirstSDUs_RB13" of Package 3 RAB test case 14.2.49.1	F	3.6.1	3.7.0	T1s040389
TP-25	TP-040148	413	-	Correction to GMM Package 2 approved TC 12.6.1.2 in handling Attach procedure.	F	3.6.1	3.7.0	T1s040402
TP-25	TP-040148	414	-	Delay to ensure the proper transmission of Cell Update Confirm in 8.3.4.2.	F	3.6.1	3.7.0	T1s040403
TP-25	TP-040148	415	-		F	3.6.1	3.7.0	T1s040420
TP-25	TP-040148	416	-	Correction to RRC Package 2 TC 8.3.1.31.	F	3.6.1	3.7.0	T1s040422
TP-25	TP-040148	417	-	Correction to Package 2 RAB test case 14.4.3 to assign tcv_CN_Domain.	F	3.6.1	3.7.0	T1s040423
TP-25	TP-040148	418	-	Addition of a delay after reception of an RRC Connection Release Complete Message	F	3.6.1	3.7.0	T1s040424
TP-25	TP-040148	419	-	General correction for test cases where UE is switched off Cell(s) relased and reconfigured	F	3.6.1	3.7.0	T1s040425
TP-25	TP-040148	420	-	Corrections to RRC Package 3 TC 8.4.1.29 and 8.4.1.30.	F	3.6.1	3.7.0	T1s040429
TP-25	TP-040148	421	-	Correction to RRC TC 8.2.3.8 in ts_RRC_ReceiveRB_SetupCmpl.	F	3.6.1	3.7.0	T1s040478
TP-25	TP-040148	422	-	Correction to Approved RRC Package 2 TC 8.3.1.22	F	3.6.0	3.7.0	T1s040426
TP-25	TP-040148	423	-	TTCN Correction to test case 8.4.1.1 to RRC ATS V3.6.0	F	3.6.0	3.7.0	T1s040390
TP-25	TP-040167	424	-		В	3.6.0	3.7.0	T1s040460
TP-25	TP-040167	425	-		В	3.6.0	3.7.0	T1s040410
TP-25	TP-040167	426	-	Addition of GCF P4 test case 9.5.5 ATS V3.6.0 Addition of NAS test case 12.6.1.3.2 to NAS ATS	В	3.6.0	3.7.0	T1s040408
TP-25 TP-25	TP-040167 TP-040167	427 428	-	V3.6.0 Addition of NAS test case 12.9.14 to NAS ATS V3.6.0	В	3.6.0	3.7.0 3.7.0	T1s040456 T1s040458
			-	Addition of NAS test case 12.4.1.3 to NAS ATS				
TP-25 TP-25	TP-040167 TP-040167	429 430	-	V3.6.0 Addition of NAS test case 12.9.3 to NAS ATS V3.6.0	B B	3.6.0	3.7.0	T1s040452 T1s040519
TP-25	TP-040167	431	-		В	3.6.0	3.7.0	T1s040519
TP-25	TP-040167	432	-	Addition of RRC test case 8.2.2.4 to RRC ATS V3.6.0 Addition of RRC test case 8.2.6.12 to RRC ATS		3.6.0	3.7.0	T1s040515
TP-25	TP-040167	433	-	V3.6.0 Addition of RAB test case 14.2.38c to RAB ATS	В	3.6.0	3.7.0	T1s040517
TP-25	TP-040167	434	-	V3.6.0 Addition of RAB test case 14.2.38f to RAB ATS	В	3.6.0	3.7.0	T1s040527
TP-25 TP-25	TP-040167 TP-040167	435 436	<u> </u>	V3.6.0 Addition of RAB test case 14.2.381 to RAB ATS V3.6.0 Addition of RAB test case 14.2.40 to RAB ATS V3.6.0	В	3.6.0 3.6.0	3.7.0	T1s040529 T1s040523
TP-25	TP-040167 TP-040167	436	1	Addition of RAB test case 14.2.40 to RAB ATS V3.6.0 Addition of RAB test case 14.2.41 to RAB ATS V3.6.0		3.6.0	3.7.0 3.7.0	T1s040523
11 -23	11 -040107	731	f	Addition of RRC Package 4 test case 8.1.3.5 to RRC	ען	3.0.0	3.7.0	1 13040020
TP-25	TP-040167	438	-	ATS V3.6.1 Addition of RRC Package 4 test case 8.2.1.4 to RRC	В	3.6.1	3.7.0	T1s040500
TP-25	TP-040167	439	<u> -</u>		В	3.6.1	3.7.0	T1s040502
TP-25	TP-040167	440	-	ATS V3.6.1 Addition of RRC Package 4 test case 8.1.2.3 to RRC	В	3.6.1	3.7.0	T1s040504
TP-25	TP-040167	441	<u>l-</u>	ATS V3.6.1	В	3.6.1	3.7.0	T1s040498
TP-25	TP-040167	442	-	Addition of P4 RRC test case 8.3.2.9	В	3.6.1	3.7.0	T1s040495
TP-25	TP-040167	443	-	Addition of P4 RRC test case 8.2.6.2	В	3.6.1	3.7.0	T1s040573
TP-25	TP-040167	444	-	Addition of P4 RRC test case 8.3.1.17	В	3.6.1	3.7.0	T1s040493
TP-25	TP-040167	445	1-	Addition of P4 RRC test case 8.1.6.1	В	3.6.1	3.7.0	T1s040489

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-25	TP-040167	446	-	Addition of GCF P4 test case 8.3.1.12 to RRC ATS V3.6.0	В	3.6.0	3.7.0	T1s040446
TP-25	TP-040167	447		Addition of GCF P4 test case 8.2.6.11 to RRC ATS V3.6.0	В	3.6.0	3.7.0	T1s040444
TP-25	TP-040167	447	-	Addition of GCF P4 test case 9.5.4 ATS V3.6.0	В	3.6.0	3.7.0	T1s040444
TP-25	TP-040167	449	-	Addition of P3 test case 8.4.1.37 to RRC ATS V3.6.1	В	3.6.1	3.7.0	T1s040474
TP-25	TP-040167	450	 	Addition of P3 test case 8.4.1.37 to RRC ATS V3.6.1	В	3.6.1	3.7.0	T1s040474
TP-25	TP-040167	451	 	Addition of GCF P4 test case 12.2.1.2 ATS V3.6.0	В	3.6.0	3.7.0	T1s040476
11-23	117-040107	451	f -	Addition of RAB Package 3 test case 14.2.38b to	ь	3.0.0	3.7.0	115040450
TP-25	TP-040167	452	_	RAB ATS V3.6.1	В	3.6.1	3.7.0	T1s040533
TP-25	TP-040167	453	1-	Modification to MAC Package 2 test case 7.1.3.1	F	3.6.1	3.7.0	T1s040531
TP-25	TP-040167	454		Correction to NAS test cases 9.4.2.3 (P2), 9.4.2.4	F	3.6.1	3.7.0	T1s040514
TP-25	TP-040167	455	 	Proc 2 (P2), and 12.4.1.1a (P1) Correction to Package 3 SMS test case 16.2.1.	F	3.6.1	3.7.0	T1s040497
TP-25	TP-040167	456	1	Correction to GCF P1 test case 8.3.1.1	F	3.6.0	3.7.0	T1s040497
TP-25	TP-040193	460	 	Updating Annex A	F	3.6.1	3.7.0	115040404
TP-26	TP-040193	461	 	ASP update and other corrections	F	3.7.0	3.8.0	T1-041975
TP-26	TP-040237	462	-	Addition of AT command lists used in ATSs	F	3.7.0	3.8.0	T1-041976
TP-26	TP-040237	463	E	ASP change for Radio Link Modification	F	3.7.0	3.8.0	T1-041976
11 20	11 040237	700	1	Addition of GCF P4 test case 8.2.2.35 to RRC ATS	'	5.7.0	3.0.0	11-0-100-
TP-26	TP-040241	1050	-	V3.7.0	В	3.7.0	3.8.0	T1s040743
TD 26	TD 040244	1051		Addition of RRC test case 8.3.1.18 to RRC ATS V3.7.0	В	270	200	T10040449
TP-26	TP-040241	1051	-	Addition of GCF P1 test case 8.4.1.5 to RRC ATS		3.7.0	3.8.0	T1s040448
TP-26	TP-040241	1052	-	v3.7.0 Addition of GCF P4 test case 8.1.7.1d to RRC ATS	В	3.7.0	3.8.0	T1s040739
TP-26	TP-040241	1053	-	v3.7.0	В	3.7.0	3.8.0	T1s040717
TD 00	TD 040044	4054		Addition of RRC Package 3 test case 6.1.1.5 to RRC	_	0.7.0	0.00	T4 - 0.40000
TP-26	TP-040241	1054	-	ATS V3.7.0	В	3.7.0	3.8.0	T1s040698
TP-26	TP-040241	1055	-		В	3.7.0	3.8.0	T1s040690
TP-26	TP-040241	1056	-	Addition of GCF P4 test case 12.4.1.4a ATS V3.7.0	В	3.7.0	3.8.0	T1s040679
TP-26	TP-040241	1057	-	Addition of RRC test case 8.2.3.29 to RRC ATS V3.7.0 (Revision of T1s040688)	В	3.7.0	3.8.0	T1s040703
TP-26	TP-040241	1058	_	Changes to GCF package 2 IR_U test case 12.8 required for approval	В	3.7.0	3.8.0	T1s040615
				Addition of P4 test case 8.3.11.1 to IR_U ATS v3.7.0,	В			
TP-26	TP-040241	1059	-	(Revision of T1s040633). Addition of GCF P4 test cases 8.1.7.1c to RRC ATS	Ь	3.7.0	3.8.0	T1s040684
TP-26	TP-040241	1060	-	v3.7.0 Correction to Package 4 test case 12.9.7b ATS	В	3.7.0	3.8.0	T1s040677
TP-26	TP-040241	1061	_	V3.7.0	В	3.7.0	3.8.0	T1s040674
TP-26	TP-040241	1062	1-	Addition of GCF P4 test case 12.4.1.4b ATS V3.7.0	В	3.7.0	3.8.0	T1s040628
				Correction to Package 4 GMM test case 12.4.1.1b				
TP-26	TP-040241	1063	-	(Revised CR T1s040467) Addition of RRC test case 8.3.1.24 to RRC ATS	В	3.7.0	3.8.0	T1s040656
TP-26	TP-040241	1064	-	V3.7.0	В	3.7.0	3.8.0	T1s040671
TP-26	TP-040241	1065	-	Addition of RRC test case 8.3.2.2 to RRC ATS V3.7.0	В	3.7.0	3.8.0	T1s040669
TP-26	TP-040241	1066	_	Addition of NAS test case 12.4.1.4c2 to NAS ATS V3.7.0	В	3.7.0	3.8.0	T1s040664
				Addition of RRC test case 8.3.1.25 to RRC ATS				
TP-26	TP-040241	1067	-	V3.7.0 Addition of NAS test case 12.6.1.3.3 to NAS ATS	В	3.7.0	3.8.0	T1s040658
TP-26	TP-040241	1068	-	V3.7.0	В	3.7.0	3.8.0	T1s040651
TP-26	TP-040241	1069	_	Addition of RRC test case 8.3.2.13 to RRC ATS V3.7.0	В	3.7.0	3.8.0	T1s040653
				Addition of P4 test case 8.1.3.4 to the RRC ATS V3.7.0				
TP-26 TP-26	TP-040241 TP-040241	1070	Ε	Addition of P4 test case 8.3.7.13 to IR_U ATS v3.7.0	В	3.7.0	3.8.0	T1s040649
		1071	-			3.7.0	3.8.0	T1s040638
TP-26	TP-040241	1072	Ε	Addition of P4 test case 8.3.7.7 to IR_U ATS v3.7.0	В	3.7.0	3.8.0	T1s040640
TP-26	TP-040241	1073	Ε	Addition of NAS test case 12.9.8 to NAS ATS V3.7.0	В	3.7.0	3.8.0	T1s040613
TP-26	TD 040244	1074		Addition of NAS test case 12.4.1.4d1 to NAS ATS V3.7.0	ь	270	290	T1c040625
	TP-040241	1074	Ε		В	3.7.0	3.8.0	T1s040635
TP-26	TP-040241	1075	-	Addition of P2 test case 6.2.1.9 to IR_U ATS v3.7.0	В	3.7.0	3.8.0	T1s040604
TP-26	TP-040241	1076	-	Addition of GCF P4 test case 12.2.1.5b ATS V3.7.0	В	3.7.0	3.8.0	T1s040595
TP-26	TP-040241	1077	-	Addition of GCF P4 test case 12.9.7c ATS V3.7.0	В	3.7.0	3.8.0	T1s040587
TP-26	TP-040241	1078	<u> -</u>	Addition of GCF P4 test case 8.2.2.31 to RRC ATS V3.7.0	В	3.7.0	3.8.0	T1s040485
TP-26	TP-040241	1079	_	Addition of RAB Package 4 test case 14.4.2a.3 to RAB ATS V3.7.0	В	3.7.0	3.8.0	T1s040626
				Addition of RAB Package 4 test case 14.4.2a.2 to				
TP-26	TP-040241	1080	<u> -</u>	RAB ATS V3.7.0	В	3.7.0	3.8.0	T1s040624

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-26	TP-040241	1081	-	Addition of RAB Package 4 test case 14.4.2a.1 to RAB ATS V3.7.0	В	3.7.0	3.8.0	T1s040622
TP-26	TP-040241	1082	-	Addition of RRC Package 4 test case 8.2.3.11 to RRC ATS V3.7.0	В	3.7.0	3.8.0	T1s040620
TP-26	TP-040241	1083	-	Addition of NAS test case 12.4.3.4 to NAS ATS V3.7.0	В	3.7.0	3.8.0	T1s040609
TP-26	TP-040241	1084	-	Addition of NAS test case 12.9.6 to NAS ATS V3.7.0	В	3.7.0	3.8.0	T1s040607
TP-26	TP-040241	1085	-	Changes to GCF package 4 IR_U test case 8.3.7.9 required for approval.	В	3.7.0	3.8.0	T1s040552
TP-26	TP-040241	1086	_	Changes to GCF package 4 IR_U test case 8.3.7.5 required for approval.	В	3.7.0	3.8.0	T1s040548
TP-26	TP-040241	1087	-	Addition of GCF P4 test case 12.4.1.2 ATS V3.6.0	В	3.7.0	3.8.0	T1s040585
TP-26	TP-040241	1088	-	Addition of GCF P4 test case 10.1.2.2.3 ATS V3.6.0	В	3.7.0	3.8.0	T1s040412
TP-26	TP-040241	1089	-	Addition of GCF P4 test case 9.5.7.1 ATS V3.6.0	В	3.7.0	3.8.0	T1s040404
TP-26	TP-040241	1090	-	Addition of GCF P4 test cases 8.1.12 to RRC ATS v3.6.1	В	3.7.0	3.8.0	T1s040602
TP-26	TP-040241	1091	-	Addition of GCF P4 test cases 8.1.7.1b to RRC ATS v3.6.1	В	3.7.0	3.8.0	T1s040600
TP-26	TP-040241	1092	-	Addition of GCF P4 test case 12.2.1.6.2 ATS V3.6.0	В	3.7.0	3.8.0	T1s040436
TP-26	TP-040241	1093		Addition of GCF P4 test case 12.2.1.5a.1 ATS V3.6.0	В	3.7.0	3.8.0	T1s040434
TP-26	TP-040241	1094	<u></u>	Addition of GCF P4 test case 8.3.1.15 to RRC ATS V3.6.0	В	3.7.0	3.8.0	T1s040487
TP-26	TP-040241	1095	-	Addition of GCF P4 test case 8.1.2.4 ATS V3.6.0	В	3.7.0	3.8.0	T1s040442
				Addition of NAS test case 12.4.1.4d2 to NAS ATS				
TP-26	TP-040241	1096	-	V3.6.0	В	3.7.0	3.8.0	T1s040579
TP-26	TP-040241	1097	-	Addition of GCF P3 test case 6.1.1.7 ATS V3.6.0	В	3.7.0	3.8.0	T1s040427
TP-26	TP-040241	1098	-		В	3.7.0	3.8.0	T1s040472
TP-26	TP-040241	1099	-	Re-submission of GCF package 2 IR_U test case 6.2.2.1 for approval.	В	3.7.0	3.8.0	T1s040534
TP-26	TP-040241	1100	-	Addition of RAB test case 14.2.51b.1 to RAB ATS V3.6.0	В	3.7.0	3.8.0	T1s040570
TP-26	TP-040241	1101	-	Addition of RRC test case 10.1.2.3.7 to RRC ATS V3.6.1	В	3.7.0	3.8.0	T1s040508
TP-26	TP-040241	1102	-	Addition of RRC test case 10.1.2.7.1 to RRC ATS V3.6.1	В	3.7.0	3.8.0	T1s040510
TP-26	TP-040241	1103	-	Addition of RRC test case 10.1.2.3.2 to RRC ATS V3.6.1	В	3.7.0	3.8.0	T1s040506
TP-26	TP-040241	1104	-	Addition of NAS Package 4 test case 12.2.1.6 Proc1 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040565
TP-26	TP-040241	1105	-	Addition of NAS Package 4 test case 12.2.1.4 proc2 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040561
TP-26	TP-040241	1106	_	Addition of NAS Package 4 test case 12.2.1.5a Proc2 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040563
TP-26	TP-040241	1107	_	Addition of NAS Package 4 test case 12.2.1.10 to NAS ATS V3.6.1	В	3.7.0	3.8.0	T1s040559
	11 010211	1101		Addition of RAB test case 14.2.23a2 to RAB ATS				110010000
TP-26	TP-040241	1108	-	V3.6.0 Addition of NAS test case 12.6.1.3.1 to NAS ATS	В	3.7.0	3.8.0	T1s040556
TP-26	TP-040241	1109	-	V3.6.0 Addition of GCF P2 RRC 8.4.1.7 - Revision of	В	3.7.0	3.8.0	T1s040454
TP-26	TP-040241	1110	-	T1s040381	В	3.7.0	3.8.0	T1s040766
TP-26	TP-040242	1111	-	Correction to RRC P3 TC 8.4.1.37	F	3.7.0	3.8.0	T1s040735
TP-26	TP-040242	1112	-	Correction to RRC P2 TC 8.3.1.31 for the timer value before step 5.	F	3.7.0	3.8.0	T1s040736
TP-26	TP-040242	1113	-	Correction to approved GCF P4 test cases 8.1.7.1c	F	3.7.0	3.8.0	T1s040734
TP-26	TP-040242	1114	-	Correction to approved package 4 NAS Test case tc_12_6_1_3_2	F	3.7.0	3.8.0	T1s040737
TP-26	TP-040242	1115	1-	Corrections to RRC Package 1 TC 8.4.1.1.	F	3.7.0	3.8.0	T1s040738
TP-26	TP-040242	1116	-	Correction to the RRC default message handler on Dc SAP for Deactivate PDP Context Request	F	3.7.0	3.8.0	T1s040731
TD oc	TD 040040	4447	1	message in RRC ATS.	_	0.7.0	0.00	T4-040700
TP-26 TP-26	TP-040242 TP-040242	1117 1118	-	Correction to TTCN for MultiRAB test cases. Correction to approved package 4 NAS Test case	F F	3.7.0 3.7.0	3.8.0	T1s040732 T1s040733
				tc_12_6_1_3_1				
TP-26 TP-26	TP-040242 TP-040242	1119 1120	-	Summary of regression errors in the wk45 ATS. Correction to RRC P4 TC 8.1.7.1b for comments in	F F	3.7.0 3.7.0	3.8.0	T1s040723 T1s040711
TP-26	TP-040242	1121	-	test steps. Correction to GCF P3 NAS test Cases 13.2.1.1, 13.2.2.1 and 13.2.2.2	F	3.7.0	3.8.0	T1s040712
	Į	1	1		_	0.7.0	0.00	T4-040740
TP-26	TP-040242	1122	-	ICorrection to GCF P4 NAS test Case 1221 62	IF	13.7.0	13.8.0	111SU4U713
TP-26 TP-26	TP-040242 TP-040242	1122 1123	- -	Correction to GCF P4 NAS test Case 12.2.1.6.2 Correction to RAB test case 14.4.2.3 and 14.4.2a.3.	F F	3.7.0 3.7.0	3.8.0	T1s040713 T1s040714

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-26	TP-040242	1125	-	Correction to AT Command used for GCF P1 NAS test Case 10.1.2.5.1	F	3.7.0	3.8.0	T1s040724
TP-26	TP-040242	1126	-	Correction in TTCN for execution of Opmode C UE.	F	3.7.0	3.8.0	T1s040725
TP-26	TP-040242	1127	-	Correction to RRC Package 4 TC 8.1.2.3	F	3.7.0	3.8.0	T1s040726
TP-26	TP-040242	1128	-	Correction to RRC test cases 8.1.2.1 and 8.1.2.7	F	3.7.0	3.8.0	T1s040727
TP-26	TP-040242	1130	-	and 8.1.3.5	F	3.7.0	3.8.0	T1s040729
TP-26	TP-040242	1131	-	Correction to RRC Package 1 TC 8.1.2.9	F	3.7.0	3.8.0	T1s040730
TP-26	TP-040242	1132	-	Correction to Package 2 RRC test case 8.3.1.4	F	3.7.0	3.8.0	T1s040721
TP-26	TP-040242	1133	-	Correction to Package 3 RRC inter-RAT measurement test cases 8.4.1.31 + 8.4.1.33 + 8.4.1.34 + 8.4.1.35 + 8.4.1.36 + 8.4.1.40	F	3.7.0	3.8.0	T1s040715
TP-26	TP-040242	1134	-	Correction to approved NAS test case 12.9.4	F	3.7.0	3.8.0	T1s040716
TP-26	TP-040242	1135	-	Correction to Approved RRC Package 2 TC 8.3.7.2	F	3.7.0	3.8.0	T1s040709
TP-26	TP-040242	1136	-	Correction to Approved RRC Package 3 TC 8.2.4.1a	F	3.7.0	3.8.0	T1s040708
TP-26	TP-040242	1137	-	Correction to Approved RRC Package 3 TC 8.4.1.31	F	3.7.0	3.8.0	T1s040707
TP-26	TP-040242	1138	-	Correction to GCF P2 test cases 6.2.1.1, 6.2.1.6 and 6.2.1.9 to IR_U ATS v3.7.0 to check the displayed PLMN.	F	3.7.0	3.8.0	T1s040693
TP-26	TP-040242	1139	-	Correction to Package 2 RAB test case 14.4.2.2 and 14.4.2.3.	F	3.7.0	3.8.0	T1s040697
TP-26	TP-040242	1140	-	Correction to GCF P4 NAS test Case 12.4.1.2 (Revision of T1-040673)	F	3.7.0	3.8.0	T1s040696
TP-26	TP-040242	1141		Correction of GCF P1 test case 7.2.3.23	F	3.7.0	3.8.0	T1s040694
TP-26	TP-040242	1142	-	Global correction of Structured Type Constraints containing wildcards violating coding convention E.3.7	F	3.7.0	3.8.0	T1s040695
TP-26	TP-040242	1143	-	Correction to GCF P4 RRC test Case 8.3.1.15	F	3.7.0	3.8.0	T1s040675
TP-26	TP-040242	1144	-	Extension to Guard Timer for Approved NAS GMM Test Cases	F	3.7.0	3.8.0	T1s040692
TP-26	TP-040242	1145	-	Correction to RRC TC 8.1.12 for handling correct number of RRC Connection Release Complete message based on the value of N308	F	3.7.0	3.8.0	T1s040687
TP-26	TP-040242	1146	-	Corrections Required for the wk42 ATS	F	3.7.0	3.8.0	T1s040682
TP-26	TP-040242	1147	-	Corrections to release of SS resources for a cell during test case execution	F	3.7.0	3.8.0	T1s040681
TP-26	TP-040242	1148	-	Correction to approved RRC Package 1 8.3.1.1	F	3.7.0	3.8.0	T1s040668
TP-26	TP-040242	1149	-	Correction to approved RRC Package 4 TC 8.2.6.11	F	3.7.0	3.8.0	T1s040667
TP-26	TP-040242	1150	-	Regression test error corrections to TTCN deliveries of wk40	F	3.7.0	3.8.0	T1s040666
TP-26	TP-040242	1151	-	Correction of GCF P1 test case 7.2.3.14	F	3.7.0	3.8.0	T1s040660
TP-26	TP-040242	1152	-	Correction of GCF P1 test case 11.1.1.1	F	3.7.0	3.8.0	T1s040661
TP-26	TP-040242	1153	-	16.1.9.1, 16.1.9.2, 16.1.10, 16.2.1, 16.2.2, 16.2.10		3.7.0	3.8.0	T1s040662
	TP-040242	1154	-	Corrections Required for the wk40 ATS	F	3.7.0	3.8.0	T1s040663
TP-26	TP-040242	1155	-	Correction to Approved RRC Package 2 TC 8.2.4.3	F	3.7.0	3.8.0	T1s040655
TP-26	TP-040242	1156	-	Correction to Package 3 SMS test cases.	F	3.7.0	3.8.0	T1s040637
TP-26	TP-040242	1157	-	Correction to approved package 4 NAS Test case tc_12_4_1_4d2	F	3.7.0	3.8.0	T1s040648
TP-26	TP-040242	1158	-	Correction to Package 4 NAS test case 12.2.1.2 for increasing the guard timer.	F	3.7.0	3.8.0	T1s040630
TP-26	TP-040242	1159	-	Regression error corrections to TTCN deliveries of wk34 and wk37	F	3.7.0	3.8.0	T1s040636
TP-26	TP-040242	1160	-	Summary of regression errors in the wk37 ATS.	F	3.7.0	3.8.0	T1s040617
TP-26	TP-040242	1161	-	Correction to RRC Package 1 test cases 8.1.7.1 and 8.1.7.2 (Revision of T1s040532)	F	3.7.0	3.8.0	T1s040618
TP-26	TP-040242	1162	-	Corrections Required for the wk37 ATS (Revision of T1s040606)	F	3.7.0	3.8.0	T1s040619
TP-26	TP-040242	1163	-	Correction to Package 2 RRC test case 8.3.2.11 to increase the timer while waiting for URA Update.	F	3.7.0	3.8.0	T1s040599
TP-26	TP-040242	1164	-	Correction to Approved RRC Package 1 TC 8.1.2.2	F	3.7.0	3.8.0	T1s040584
TP-26	TP-040242	1165	-	Radiolink removal and subsequent addition to align the TTCN with 34.123-1	F	3.7.0	3.8.0	T1s040583
TP-26	TP-040242	1166	-	TTCN Correction to Test Case 14.2.12 and 14.2.16	F	3.7.0	3.8.0	T1s040581
TP-26	TP-040242	1167	-	Correction to Approved RRC Package 2 TC 8.4.1.2	F	3.7.0	3.8.0	T1s040582
TP-26	TP-040242	1168	-	Corrections to GCF package 2 IR_U test case 6.2.1.1	F	3.7.0	3.8.0	T1s040536
TP-26	TP-040242	1169	-	Corrections to GCF package 2 IR_U test case 6.2.1.6		3.7.0	3.8.0	T1s040538
TP-26	TP-040242	1170	-	Correction of GCF package 2 IR_U test case 8.3.7.1.	F	3.7.0	3.8.0	T1s040540
TP-26	TP-040242	1171	-		F	3.7.0	3.8.0	T1s040542
TP-26	TP-040242	1172	-	Correction of GCF package 2 IR_U test case 8.3.7.3.	F	3.7.0	3.8.0	T1s040544
TP-26	TP-040242	1173	-	Correction of GCF package 2 IR_U test case 8.3.7.4.	F	3.7.0	3.8.0	T1s040546
TP-26	TP-040242	1174	-	Correction of GCF package 2 IR_U test case 8.4.1.40.	F	3.7.0	3.8.0	T1s040554

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-26	TP-040242	1175	-	TTCN changes to approved package 1 RRC testcase 8.4.1.3	F	3.7.0	3.8.0	T1s040576
TP-26	TP-040242	1176	=	Correction to MultiRAB test cases 14.2.38a, 14.2.38b and 14.2.38e	F	3.7.0	3.8.0	T1s040575
TP-26	TP-040242	1177	-	Correction to Approved RRC Package 2 TC 8.4.1.2	F	3.7.0	3.8.0	T1s040572
TP-26	TP-040242	1178	-	Addition of verdicts in RRC default message handler	F	3.7.0	3.8.0	T1s040569
				on Dc SAP for Deactivate PDP Context Request				
TD OC	TD 040040	4470		message in RRC ATS.(Revision of T1s040512)	F	0.7.0	2.0.0	T1s040558
TP-26	TP-040242	1179	-	Regression error corrections to TTCN deliveries of wk26 and wk31	۲	3.7.0	3.8.0	118040558
TP-26	TP-040242	1180	-	Modification to MAC Package 2 test case 7.1.3.1	F	3.7.0	3.8.0	T1s040531
TP-26	TP-040242	1181	-	Correction to NAS test cases 9.4.2.3 (P2), 9.4.2.4 Proc 2 (P2), and 12.4.1.1a (P1)	F	3.7.0	3.8.0	T1s040514
TP-26	TP-040242	1182	-	Correction to Package 3 SMS test case 16.2.1.	F	3.7.0	3.8.0	T1s040497
TP-26	TP-040242	1183	-	Correction to GCF P1 test case 8.3.1.1	F	3.7.0	3.8.0	T1s040484
TP-26	TP-040242	1184	-	Regression test error corrections to TTCN deliveries of wk42	F	3.7.0	3.8.0	T1s040699
TP-26	TP-040238	1185	-	Updating Annex A	F	3.7.0	3.8.0	-
TP-27	TP-050039	1185		RRC Connection Establishment: Reject with InterRATInfo is set to GSM and selection to the designated system fails	В	3.8.0	5.0.0	T1s050056
TP-27	TP-050039	1186		RRC Connection Establishment: Reject with interRATInfo is set to GSM	В	3.8.0	5.0.0	T1s050054
TP-27	TP-050039	1187		MM connection / abortion by the network / cause not equal to #6	В	3.8.0	5.0.0	T1s050044
TP-27	TP-050039	1188		PS detach / rejected / PS services not allowed in this PLMN/ test1	В	3.8.0	5.0.0	T1s050046
TP-27	TP-050039	1189		Routing area updating / abnormal cases / attempt counter check / miscellaneous reject causes	В	3.8.0	5.0.0	T1s050018
TP-27	TP-050039	1190		RRC / Paging for Connection in connected mode (URA_PCH, multiple paging records)	В	3.8.0	5.0.0	T1s050038
TP-27	TP-050039	1191		Combined routing area updating / abnormal cases / access barred due to access class control / test procedure 1	В	3.8.0	5.0.0	T1s050036
TP-27	TP-050039	1192		Combined routing area updating / abnormal cases / access barred due to access class control / test procedure 2	В	3.8.0	5.0.0	T1s050034
TP-27	TP-050039	1193		Interactive or background / UL:64 DL:384 kbps / PS RAB + UL:3.4 DL: 3.4 kbps SRBs for DCCH / 20 ms TTI	В	3.8.0	5.0.0	T1s050025
TP-27	TP-050039	1194		Measurement Report on INITIAL DIRECT TRANSFER message and UPLINK DIRECT TRANSFER message	В	3.8.0	5.0.0	T1s050031
TP-27	TP-050039	1195		Conversational / speech / UL:5.9 DL:5.9 kbps / CS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	В	3.8.0	5.0.0	T1s050023
TP-27	TP-050039	1196		Interactive or background / UL:384 DL:384 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH / 10 ms	В	3.8.0	5.0.0	T1s050010
TP-27	TP-050039	1197		Interactive or background / UL:128 DL:128 kbps / PS RAB + UL:3.4 DL:3.4 kbps SRBs for DCCH	В	3.8.0	5.0.0	T1s050008
TP-27	TP-050039	1198		Cell change order from UTRAN/To GPRS/CELL_DCH/Failure (Physical channel & Reversion Failure)	В	3.8.0	5.0.0	T1s050001
TP-27	TP-050039	1199		RRC Connection Release in CELL_DCH state	В	3.8.0	5.0.0	T1s050006
TP-27	TP-050039	1200		(Network Authentication Failure): Success Inter system handover from UTRAN/To GSM/Speech/Failure (Physical channel Failure and Reversion Failure)	В	3.8.0	5.0.0	T1s040798
TP-27	TP-050039	1201			В	3.8.0	5.0.0	T1s040794
TP-27	TP-050039	1202		RRC / Radio Bearer Establishment for transition from CELL_DCH to CELL_FACH (Frequency band		3.8.0	5.0.0	T1s040796
TD 07	TD 050000	1000		modification): Success	D	200	E 0 0	T10040755
TP-27 TP-27	TP-050039 TP-050039	1203 1204		Correct Selection of RACH parameters (FDD) Measurement Control and Report: Additional	B B	3.8.0	5.0.0 5.0.0	T1s040755 T1s040791
TP-27				Measurements list				
	TP-050039	1205		PS attach / rejected / PS services not allowed in this PLMN	В	3.8.0	5.0.0	T1s040779
TP-27	TP-050039	1206		Access Service class selection for RACH transmission	В	3.8.0	5.0.0	T1s040757
TP-27	TP-050039	1207		Selection of RAT for UPLMN; Automatic mode	В	3.8.0	5.0.0	T1s040746
TP-27 TP-27	TP-050039 TP-050039	1208		Selection of RAT for OPLMN; Automatic mode Cell reselection if cell becomes barred or S<0:	В	3.8.0	5.0.0	T1s040748 T1s040701
15-21	11-030039	1209		UTRAN to GPRS (CELL_FACH)	ט	3.8.0	5.0.0	115040701

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-27	TP-050039	1210		Service Request / RAB re-establishment / UE initiated / multiple PDP contexts	В	3.8.0	5.0.0	T1s040719
TP-27	TP-050040	1211		Summary of regression errors in the wk04 ATS	F	3.8.0	5.0.0	T1s050063
TP-27	TP-050040	1212		Summary of regression errors in the wk04 ATS.	F.	3.8.0	5.0.0	T1s050062
TP-27	TP-050040	1213		Correction to RRC P2 TC 8.4.1.7	F.	3.8.0	5.0.0	T1s050040
TP-27	TP-050040	1214		Summary of regression errors in the wk04 ATS.	F	3.8.0	5.0.0	T1s050040
TP-27	TP-050040				F			
		1215		Summary of regression errors in the wk04 ATS.		3.8.0	5.0.0	T1s050058
TP-27	TP-050040	1216		Correction to approved package 4 NAS Test case 12_6_1_3_3	F	3.8.0	5.0.0	T1s050052
TP-27	TP-050040	1217		Correction to Approved RRC Package 3 TC 8.4.1.38	F	3.8.0	5.0.0	T1s050051
TP-27	TP-050040	1218		Correction to Approved NAS Package 3 TC 9.4.7	F	3.8.0	5.0.0	T1s050053
TP-27	TP-050040	1219		Correction to Approved RRC Package 2 TC 8.3.7.2 / 8.3.7.3	F	3.8.0	5.0.0	T1s050050
TP-27	TP-050040	1220		Correction to Approved RRC Package 3 TC 8.4.1.36	F	3.8.0	5.0.0	T1s050048
TP-27	TP-050040	1221		Correction to Approved IR_U Package 2 test case 6.2.2.1	F	3.8.0	5.0.0	T1s050042
TP-27	TP-050040	1222		Correction to Approved IR_U Package 4 Test Case 8.3.7.12	F	3.8.0	5.0.0	T1s050043
TP-27	TP-050040	1223		Correction to test step "ts_AT_TerminateCall".	F	3.8.0	5.0.0	T1s050041
TP-27	TP-050040	1224		Wk51 regression error report on unapproved and approved Idlemode testcases 6.1.2.x	F	3.8.0	5.0.0	T1s050027
TP-27	TP-050040	1225		Correction to approved package 3 NAS Test case	F	3.8.0	5.0.0	T1s050030
TD OF	TD 050040	4000	<u> </u>	9_4_7	_	0.00	F 0 0	T4-050000
TP-27	TP-050040	1226	<u> </u>	Summary of regression errors in the wk51 ATS.	F	3.8.0	5.0.0	T1s050028
TP-27	TP-050040	1227		Correction to RRC P1 TC 8.4.1.3	F	3.8.0	5.0.0	T1s050020
TP-27	TP-050040	1228		Correction to RRC P2 TC 8.3.1.22 for removing check of "FOR" field value from ROUTING AREA UPDATING REQUEST message.	F	3.8.0	5.0.0	T1s050021
TP-27	TP-050040	1229		Correction to Package 4 NAS test case 12.9.14	F	3.8.0	5.0.0	T1s050022
TP-27	TP-050040	1230		Summary of regression errors in the wk51 ATS.	F	3.8.0	5.0.0	T1s050033
TP-27	TP-050040	1231		Correction to 34.123-3, section 16, SMS test cases regarding Validity Period Formats	F	3.8.0	5.0.0	T1s050029
TP-27	TP-050040	1232		Additional Corrections required for 14.4.2.2 test cases in the RAB ATS.	F	3.8.0	5.0.0	T1s050017
TP-27	TP-050040	1233		Revised corrections to approved IR_U test cases	F	3.8.0	5.0.0	T1s050012
TP-27	TP-050040	1234		6_2_1_1, 6_2_1_7 and 6_2_1_8. Corrections required for "Combinations on SCCPCH" test cases in the RAB ATS.	F	3.8.0	5.0.0	T1s040801
TP-27	TP-050040	1235		Correction to RRC P1 TC 8.4.1.5	F	3.8.0	5.0.0	T1s040797
TP-27	TP-050040	1236		Additional Corrections Required for the wk47 ATS	F	3.8.0	5.0.0	T1s040797
TP-27	TP-050040	1237		Correction to Package 4 NAS test case 12.2.1.5a Proc1	F	3.8.0	5.0.0	T1s040773
TP-27	TP-050040	1238		Summary of regression errors in the wk49 ATS.	F	3.8.0	5.0.0	T1s040790
TP-27	TP-050040	1239		Summary of regression errors in wk49 ATS.	F	3.8.0	5.0.0	T1s040789
TP-27	TP-050040	1240		Correction to Approved RRC Package 4 TC 8.3.11.1	F	3.8.0	5.0.0	T1s040788
TP-27	TP-050040	1241		Correction required to Package 4 NAS test case 12.9.13.	F	3.8.0	5.0.0	T1s040787
TP-27	TP-050040	1242		Correction to approved GCF P4 NAS test case 12.9.8: improvement of incomplete implementation of T1-041930	F	3.8.0	5.0.0	T1s040786
TP-27	TP-050040	1243		Correction to SIB1 contents for approved RRC Idle Mode and InterRAT test cases.	F	3.8.0	5.0.0	T1s040774
TP-27	TP-050040	1244		Correction to Package 4 NAS test cases 12.4.3.4.	F	3.8.0	5.0.0	T1s040781
TP-27	TP-050040	1245		Corrections to RRC Package 3 TC 8.4.1.26 to change the Downlink Power level settings of Cell A at Time Instant 'T1'.	F	3.8.0	5.0.0	T1s040782
TP-27	TP-050040	1246			F	3.8.0	5.0.0	T1s040783
TP-27	TP-050040	1247		Correction to RRC P1 TC 8.4.1.5 (Revision of T1s040739)	F	3.8.0	5.0.0	T1s040770
TP-27	TP-050040	1248		Corrections required to rlc_SizeIndex in the RAB	F	3.8.0	5.0.0	T1s040772
TP-27	TP-050040	1249		Corrections to RRC 8.3.2.x for Special LI	F	3.8.0	5.0.0	T1s040769
TP-27	TP-050040	1250		Summary of regression errors in the wk47 ATS.	F	3.8.0	5.0.0	T1s040768
TP-27	TP-050040	1251	 	Summary of regression errors in the wk47 ATS.	F	3.8.0	5.0.0	T1s040760
TP-27	TP-050040	1252		Correction to Package 2 RRC test case 8.3.2.11 to increase the wait time while checking that UE does	F	3.8.0	5.0.0	T1s040752
		1.5-		not send URA Update.				
TP-27	TP-050040	1253		Correction to RRC Test Case 8.3.1.22.	F	3.8.0	5.0.0	T1s040753

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
TP-27	TP-050040	1254		Correction to approved package 2 NAS Test case 9.4.2.3	F	3.8.0	5.0.0	T1s040761
TP-27	TP-050040	1255		Corrections to RRC Package 1 TC 8.3.1.1 to add a delay before SS reconfigures MAC according to the new C-RNTI or U-RNTI assigned to UE.	F	3.8.0	5.0.0	T1s040762
TP-27	TP-050040	1256		Summary of regression errors in the wk47 ATS.	F	3.8.0	5.0.0	T1s040750
TP-27	TP-050040	1257		Corrections Required for the wk47 ATS	F	3.8.0	5.0.0	T1s040758
TP-27	TP-050040	1258		Summary of regression errors in IR_U wk47 ATS.	F	3.8.0	5.0.0	T1s040754
TP-27	TP-050040	1259		Correction to package 1 test case 8.3.4.3.	F	3.8.0	5.0.0	T1s040742
TP-27	TP-050040	1260		Correction to approved package 4 NAS Test cases 12.2.1.6 proc1, 12.2.1.6 proc2 and 12.9.8	F	3.8.0	5.0.0	T1s040745
TP-27	TP-050037	1261	-	Add new verified TTCN test cases CR to 34.123-3 (prose) in Annex A	F	3.8.0	5.0.0	-
TP-27	TP-050036	1263	-	Corrections Required for "Combinations on SCCPCH" configurations.	F	3.8.0	5.0.0	T1-050201r3
TP-27	TP-050036	1264	-	Introduce ASP for HSDPA	В	3.8.0	5.0.0	T1-050036
TP-27	TP-050036	1265	-	Introduce ASP for LCR TDD	В	3.8.0	5.0.0	T1-050037
TP-27	TP-050036	1266	-	Replacement of 34.123-3 Release 99 by a pointer to the newly created Release 5 version	F	3.8.0	3.9.0	T1-050250
TP-27	TP-050036	1267	-	Corrections of encoding rules and postambles	F	3.8.0	5.0.0	T1-050282
TP-27	TP-050036	1268	-	Introduce ASP for A-GPS	В	3.8.0	5.0.0	T1-050284
RP-28	RP-050365	1270	-	Addition of NAS WI 12 test case 12.3.2.7 to NAS ATS	В	5.0.0	5.1.0	R5s050128
RP-28	RP-050365	1271	_	V5.0.0 Addition of WI-012 NAS test case 12.9.7a to NAS	В	5.0.0	5.1.0	R5s050134
RP-28				ATS V5.0.0				R5s050080
	RP-050365	1272	-	Addition of NAS WI 12 test case 12.9.9 to NAS ATS V3.8.0	В	5.0.0	5.1.0	
RP-28	RP-050365	1273	-	Addition of WI-010 P3 RAB test case 14.2.43.1 to RAB ATS V5.0.0	В	5.0.0	5.1.0	R5s050100
RP-28	RP-050365	1274	-	Addition of WI-012 RAB test case 14.2.43.2 to RAB ATS V5.0.0	В	5.0.0	5.1.0	R5s050098
RP-28	RP-050365	1275	-	Addition of WI-012 RAB test case 14.2.58a to RAB ATS V5.0.0	В	5.0.0	5.1.0	R5s050096
RP-28	RP-050365	1276	-	Addition of WI-012 RLC test case 7.2.3.28 to RLC ATS V3.8.0	В	5.0.0	5.1.0	R5s050066
RP-28	RP-050365	1277	-	Addition of WI-012 RLC test case 7.2.3.32 to RLC ATS V3.8.0	В	5.0.0	5.1.0	R5s050068
RP-28	RP-050365	1278	-	Addition of WI-012 RLC test case 7.2.3.35 to RLC ATS V3.8.0	В	5.0.0	5.1.0	R5s050070
RP-28	RP-050365	1279	-	Addition of WI12 test case 8.1.1.9 to RRC ATS v5.0.0 (Revision of R5s050125)	В	5.0.0	5.1.0	R5s050141
RP-28	RP-050365	1280	-	Addition of WI12 test cases 8.1.2.11 to RRC ATS v3.8.0	В	5.0.0	5.1.0	R5s050074
RP-28	RP-050365	1281	-	Addition of RRC WI-012 test case 8.3.1.30 to RRC ATS V5.0.0	В	5.0.0	5.1.0	R5s050138
RP-28	RP-050365	1282	-	Addition of WI-012 test case 8.3.7.16 to IR_U ATS 3.8.0.	В	5.0.0	5.1.0	R5s050076
RP-28	RP-050365	1283	-	Regression changes on TC 8.3.9.5 - WK09	В	5.0.0	5.1.0	R5s050112
RP-28	RP-050365	1284	-	Addition of RRC WI-012 test case 8.4.1.6 to RRC ATS V5.0.0	В	5.0.0	5.1.0	R5s050132
RP-28	RP-050365	1285	-	Addition of WI-012 NAS test case 9.4.5.4.6 to NAS ATS V5.0.0	В	5.0.0	5.1.0	R5s050136
RP-28	RP-050365	1286	-	Addition of NAS P4 test case 12.4.1.4c Proc1 to NAS ATS V5.0.0	В	5.0.0	5.1.0	R5s050170
RP-28	RP-050365	1287	-	Revision and Addition of WI-10 (P2) test cases 6.2.2.2 to IR_U ATS v5.0.0	В	5.0.0	5.1.0	R5s050173
RP-28	RP-050281	1289	-	Summary of regression errors for IR_U_r3_wk17.	F	5.0.0	5.1.0	R5s050146
RP-28	RP-050281	1290	_	Correction to Approved RRC Package 4 TC 8.4.1.40	F	5.0.0	5.1.0	R5s050169
RP-28	RP-050281	1291	-	Correction of a missing LB entity in LB setup introduced in Rel-5 in the definition of CLOSE UE TEST LOOP	F	5.0.0	5.1.0	R5s050168
RP-28	RP-050281	1292	<u> </u>	Correction to approved testcase 8.2.2.4 and 8.2.4.4	F	5.0.0	5.1.0	R5s050165
RP-28	RP-050281	1293	-		F	5.0.0	5.1.0	R5s050166
RP-28	DD 050204	1204	!		F	500	510	D5c050462
RP-28	RP-050281 RP-050281	1294 1295	-	Correction to approved testcase 8.2.1.9 Correction in TTCN to support Band II UE for UE	F	5.0.0	5.1.0 5.1.0	R5s050163 R5s050167
RP-28	RP-050281	1296	-		F	5.0.0	5.1.0	R5s050152
RP-28	RP-050281	1297	-	Attach Accept message Correction to Order of AT commands used for	F	5.0.0	5.1.0	R5s050153
DD 00	DD 05000 :	4000		initiation of PS call	_	5.0.0	5.4.0	DE-050451
RP-28	RP-050281	1298	-	Correction to approved testcase 8.1.7.1b	F	5.0.0	5.1.0	R5s050154

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-28	RP-050281	1299	-	Regression Error Report based on wk17ATS	F	5.0.0	5.1.0	R5s050164
RP-28	RP-050281	1300	-	Correction in TTCN to enable ciphering for 3G to 2G handover.	F	5.0.0	5.1.0	R5s050149
RP-28	RP-050281	1301	-	Correction to approved RRC testcases 8.1.3.3 and 8.1.3.4	F	5.0.0	5.1.0	R5s050148
RP-28	RP-050281	1302	-	Correction to GCF WI-10 test case 8.4.1.3	F	5.0.0	5.1.0	R5s050140
RP-28	RP-050281	1303	-	Corrections to WI-010 P3 RAB test cases 14.2.12, 14.2.16 & 14.2.17	F	5.0.0	5.1.0	R5s050127
RP-28	RP-050281	1304	-	Correction required for WI-010 P3 RAB Testcase 14.2.38c.	F	5.0.0	5.1.0	R5s050124
RP-28	RP-050281	1305	-	Correction to GCF Package 3 RRC test case 8.3.1.24	F	5.0.0	5.1.0	R5s050123
RP-28	RP-050281	1306	-	Summary of additional regression errors in the wk09 ATS.	F	5.0.0	5.1.0	R5s050116
RP-28	RP-050281	1307	-	Correction to approved RRC Package 4 TC 8.3.1.18	F	5.0.0	5.1.0	R5s050117
RP-28	RP-050281	1308	-	Correction to WI-12 Test Case 8.3.7.16	F	5.0.0	5.1.0	R5s050115
RP-28	RP-050282	1309	-	Correction to RRC P3 TC 8.3.2.13	F	5.0.0	5.1.0	R5s050113
RP-28	RP-050282	1310	-	Regression Error Report based on wk09 ATS	F	5.0.0	5.1.0	R5s050114
RP-28	RP-050282	1311	-	Summary of regression errors for IR_U_wk09.	F	5.0.0	5.1.0	R5s050110
RP-28	RP-050282	1312	-	Correction to RRC P2 TC 8.3.1.21	F	5.0.0	5.1.0	R5s050111
RP-28	RP-050282	1313	-	Correction to Approved NAS Package 4 TC 12.4.1.4a	F	5.0.0	5.1.0	R5s050109
RP-28	RP-050283	1314	-	Summary of regression errors in the wk09 ATS.	F	5.0.0	5.1.0	R5s050106
RP-28	RP-050282	1315	-	Correction for the MM test step "ts_GMM_RAU_AcceptEPLMN"	F	5.0.0	5.1.0	R5s050105
RP-28	RP-050282	1316	-	Correction to SMS Test Suite for AT Commands	F	5.0.0	5.1.0	R5s050104
RP-28	RP-050282	1317	-	Changes required to support Release 5	F	5.0.0	5.1.0	R5s050095
RP-28	RP-050282	1318	-	Correction to approved package WI-12 NAS Test case 9_5_7_2	F	5.0.0	5.1.0	R5s050103
RP-28	RP-050283	1319	-	Correction to approved testcase 8.1.10.1	F	5.0.0	5.1.0	R5s050102
RP-28	RP-050282	1320	-	Handling of L2 Acknowledgement on GERAN side.	F	5.0.0	5.1.0	R5s050094
RP-28	RP-050282	1321	-	Correction to Approved RRC Package 4 TC 8.3.1.18	F	5.0.0	5.1.0	R5s050093
RP-28	RP-050282	1322	-	Correction to IR_U P4 Approved test case 8.3.11.4	F	5.0.0	5.1.0	R5s050091
RP-28	RP-050282	1323	 	Summary of iWD_07 regression test errors	F	5.0.0	5.1.0	R5s050078
RP-28	RP-050282	1324	-	Corrections to section 16 SMS test cases to improve AT command handling	F	5.0.0	5.1.0	R5s050090
RP-28	RP-050282	1325	-	Correction to approved GCF P4 test cases 8.1.7.1c	F	5.0.0	5.1.0	R5s050086
RP-28	RP-050282	1326	-	Summary of regression errors in the wk07 ATS.	F	5.0.0	5.1.0	R5s050088
RP-28	RP-050282	1327	-		F	5.0.0	5.1.0	R5s050083
RP-28	RP-050282	1328	-	Correction to approved GCF P4 test cases 8.1.7.1d	F	5.0.0	5.1.0	R5s050087
RP-28	RP-050282	1329	-	Correction to approved package 2 NAS Test case 9 5 2	F	5.0.0	5.1.0	R5s050082
RP-28	RP-050282	1330	-	Correction to RRC P1 TC 8.4.1.1, 8.4.1.3 and P3 TC 8.4.1.29	F	5.0.0	5.1.0	R5s050065
RP-28	RP-050365	1331	-	Revision of RRC WI-14 test case 8.2.3.30 to RRC ATS v5.0.0	В	5.0.0	5.1.0	R5s050179
RP-28	RP-050365	1332	-	Addition of RRC WI-014 test case 8.2.4.36 to RRC ATS V5.0.0 (Revision of R5s050161)	В	5.0.0	5.1.0	R5s050199
RP-28	RP-050366	1333	1	Add new verified and e-mail approved TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.0.0	5.1.0	-
RP-28	RP-050278	1334	-	Correction to specification version references	F	5.0.0	5.1.0	R5-050639
RP-29	RP-050527	1334	-	Addition of WI-10 NAS test case 12.4.2.4 to NAS ATS V5.1.0	В	5.1.0	5.2.0	R5s050295
RP-28	RP-050278	1335	-	Modifying AT Commands, ASPs, TSOs and PIXITs	F	5.0.0	5.1.0	R5-050955
RP-29	RP-050527	1335	-	Addition of WI12 test case 8.2.1.24 to RRC ATS V5.1.0	В	5.1.0	5.2.0	R5s050259
RP-28	RP-050278	1336	-	HSDPA ASP Modification	F	5.0.0	5.1.0	R5-050975
RP-29	RP-050527	1336	-	Addition of WI12 test case 8.2.1.34 to RRC ATS V5.1.0	В	5.1.0	5.2.0	R5s050261
RP-28	RP-050278	1337	<u> </u>	Modifying G_L2_SYSINFO_REQ ASP	F	5.0.0	5.1.0	R5-050980
RP-29	RP-050527	1337	<u> </u>	Addition of RRC WI-012 test case 8.2.1.33 to RRC	В	5.1.0	5.2.0	R5s050242
RP-28	RP-050327			ATS V5.1.0 CR to 34.123-3 Rel-5: Addition of a new ASP required		5.0.0		
		1338	_	for test case tc_8_1_7_1d			5.1.0	R5-050983
RP-29	RP-050527	1338	<u> </u>	Addition of NAS WI-012 test case 12.2.1.11 to NAS ATS V5.0.0	В	5.1.0	5.2.0	R5s050236
RP-29	RP-050527	1339	-	Addition of WI-10 RRC test case 8.4.1.14 to RRC ATS V5.0.0	В	5.1.0	5.2.0	R5s050228
RP-29	RP-050527	1340	-	Addition of RRC WI-14 test case 8.2.6.42 to RRC ATS v5.0.0	В	5.1.0	5.2.0	R5s050225
RP-29	RP-050527	1341	-	Addition of WI-010 (P4) test case 8.3.9.3 to IR_U ATS V5.0.0		5.1.0	5.2.0	R5s050219
RP-29	RP-050527	1342	<u> -</u>	Addition of RRC WI-010 (P2) test case 8.2.4.1 to	В	5.1.0	5.2.0	R5s050210

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
				RRC ATS V5.0.0				
RP-29	RP-050527	1343	-	Addition of RRC WI-014 test case 8.3.1.32 to RRC ATS V5.0.0	В	5.1.0	5.2.0	R5s050217
RP-29	RP-050527	1344	-	Addition of RRC WI-014 test case 8.2.1.28 to RRC ATS V5.0.0	В	5.1.0	5.2.0	R5s050212
RP-29	RP-050527	1345	-	Addition of RRC WI-14 test case 8.2.1.32 to RRC ATS v5.0.0	В	5.1.0	5.2.0	R5s050206
RP-29	RP-050527	1346	-	Addition of RRC WI-14 test case 8.2.1.31 to RRC ATS v5.0.0	В	5.1.0	5.2.0	R5s050204
RP-29	RP-050527	1347	-	Addition of RRC WI-014 test case 8.2.2.38 to RRC ATS V5.0.0 (Revision of R5s050157)	В	5.1.0	5.2.0	R5s050197
RP-29	RP-050527	1348	-	Addition of WI-010 RRC test case 6.1.2.1 to RRC	В	5.1.0	5.2.0	R5s050189
RP-29	RP-050527	1349	-	ATS V5.0.0 Addition of RRC WI-14 test case 8.2.1.30 to RRC	В	5.1.0	5.2.0	R5s050184
RP-29	RP-050527	1350	-	ATS v5.0.0 Addition of RRC WI-10 test case 8.3.1.23 to RRC	В	5.1.0	5.2.0	R5s050175
RP-29	RP-050527	1351	-	ATS V5.0.0 Addition of RRC WI-14 test case 8.2.1.29 to RRC	В	5.1.0	5.2.0	R5s050182
RP-29	RP-050527	1352	-	ATS v5.0.0 Addition of WI-014 test case 8.3.1.34 to HS_ENH	В	5.1.0	5.2.0	R5s050347
RP-29	RP-050527	1353	-	ATS V5.1.0 Addition of WI14 test case 8.3.1.35 to HS_ENH ATS	В	5.1.0	5.2.0	R5s050321
RP-29	RP-050528	1354	-	V5.1.0 Addition of WI14 test case 8.2.6.40 to HS ENH ATS	В	5.1.0	5.2.0	R5s050323
RP-29	RP-050528	1355	_	V5.1.0 Addition of WI-014 MAC test case 7.1.5.4 to	В	5.1.0	5.2.0	R5s050318
RP-29	RP-050528	1356		HS_ENH ATS V5.1.0 Addition of WI14 test case 7.1.5.3 to HS_ENH ATS	В	5.1.0	5.2.0	R5s050315
				V5.1.0				
RP-29	RP-050528	1357	-	Revision (of R5s0500248) to introduce test case 8_2_2_40 based on wk31 ATS	В	5.1.0	5.2.0	R5s050339
RP-29	RP-050528	1358	-	Revision (of R5s050253) to introduce test case 8_3_1_33 based on wk31 ATS	В	5.1.0	5.2.0	R5s050341
RP-29	RP-050528	1359	-	Revision (of R5s050250) to introduce test case 14_6_1 based on wk31 ATS	В	5.1.0	5.2.0	R5s050345
RP-29	RP-050528	1360	-	Addition of WI14 test case 7.1.5.5 to HS_ENH ATS V5.1.0 (Revision of R5s050276)	В	5.1.0	5.2.0	R5s050313
RP-29	RP-050528	1361	-	Addition of WI14 test case 7.1.5.1 to HS_ENH ATS V5.1.0 (Revision of R5s050257)	В	5.1.0	5.2.0	R5s050311
RP-29	RP-050528	1362	-	Addition of WI-014 test case 8.2.1.27 to HS_ENH ATS V5.1.0 (Revision of CR R5s050263)	В	5.1.0	5.2.0	R5s050307
RP-29	RP-050528	1363	-	Addition of WI-014 test case 8.2.6.49 to HS_ENH ATS V5.1.0 (Revision of R5s050265)	В	5.1.0	5.2.0	R5s050309
RP-29	RP-050528	1364	-	Re-submission of WI-014 test case 8.3.11.9 to	В	5.1.0	5.2.0	R5s050349
RP-29	RP-050528	1365	-	Addition of WI-014 test case 8.2.2.36 to HS_ENH	В	5.1.0	5.2.0	R5s050360
RP-29	RP-050529	1366	-	ATS V5.1.0 (Revision of CR R5s050267) Correction required in HSDPA constraint	F	5.1.0	5.2.0	R5s050351
RP-29	RP-050529	1367	-	cbr_108_RRC_ConnReq_r5 Correction to approved WI-010 MM Test Cases	F	5.1.0	5.2.0	R5s050337
RP-29	RP-050529	1368	-	9_4_2_2_1 and 9_4_2_2_2 Corrections to test step ts_C4_CheckCellPCH and	F	5.1.0	5.2.0	R5s050326
RP-29	RP-050529	1369	-	ts_C4_CheckCellPCH_r5 Correction to GCF P1(WI-10) approved RRC test	F	5.1.0	5.2.0	R5s050320
RP-29	RP-050529	1370	-	case 8.1.1.2 Correction required in HSDPA step	F	5.1.0	5.2.0	R5s050317
RP-29	RP-050529	1371		ts_RRC_RAB_EstPS_MO_P25 Upgrade HSENH ATS to full R5	F	5.1.0	5.2.0	R5s050294
RP-29	RP-050529	1372	E	Correction to GCF approved RRC test case 8.3.1.18	F	5.1.0	5.2.0	R5s050293
RP-29	RP-050529	1373	[Correction to GCF approved RRC test case 8.3.1.18 Correction asn.1 calculated values.	F	5.1.0	5.2.0	R5s050293
RP-29	RP-050529	1374	Ē	Corrections to teststep ts_C5_CheckURA_PCH	F	5.1.0	5.2.0	R5s050255
RP-29	RP-050529	1374	Ē	Corrections to teststep is_C5_Checkora_PCh Correction to approved testcases 8.3.1.5 and 8.3.1.6	F	5.1.0	5.2.0	R5s050287
RP-29	RP-050529	1376	Ė	Correction to approved testcases 6.3.1.3 and 6.3.1.6 Correction to Inter-RAT Test cases	F	5.1.0	5.2.0	R5s050287
RP-29	RP-050529	1377	Ŀ	Correction to the SMS Test Case 16.1.10 and 16.2.10		5.1.0	5.2.0	R5s050200
RP-29	RP-050529	1378	<u> </u>	Summary of regression errors in the wk27 ATS.	F	5.1.0	5.2.0	R5s050291
RP-29	RP-050529	1379	[Correction to test step ts_CRLC_DL_CipherCfgRB	F	5.1.0	5.2.0	R5s050292
RP-29	RP-050529	1380	<u> </u>	Correction to GCF WI-12 approved NAS test case	F	5.1.0	5.2.0	R5s050290
				9.4.5.4.6				
RP-29	RP-050529	1381		Correction to GCF WI-10 approved IR_U test case 8.4.1.31	F	5.1.0	5.2.0	R5s050289
RP-29	RP-050529	1382		Corrections to Approved WI10 test case 9.4.5.2	F	5.1.0	5.2.0	R5s050282
RP-29	RP-050529	1383	<u> -</u>	Correction to GCF WI-10 test case 8.4.1.5	F	5.1.0	5.2.0	R5s050234

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-29	RP-050529	1384	-	Correction to the RRC test case 8.4.1.14	F	5.1.0	5.2.0	R5s050278
RP-29	RP-050529	1385	-	Corrections to teststep ts_HO_SS_ReconfDCH_HS_ToFACH used for WI- 14 Test Cases	F	5.1.0	5.2.0	R5s050279
RP-29	RP-050530	1386	-	Correction to 8_1_x series approved testcases	F	5.1.0	5.2.0	R5s050271
RP-29	RP-050530	1387	1	Correction to test step ts_RRC_ReceiveRB_SetupCmpl to handle IE 'Start' for the ciphering path	F	5.1.0	5.2.0	R5s050272
RP-29	RP-050530	1388	-	Correction to approved Inter-RAT IR_U testcase 8.3.7.13	F	5.1.0	5.2.0	R5s050273
RP-29	RP-050530	1389	-	Correction to approved testcase 8.2.4.1	F	5.1.0	5.2.0	R5s050274
RP-29	RP-050530	1390	-	Correction required for WI-010 P4 RRC Testcase 6.1.2.9.	F	5.1.0	5.2.0	R5s050275
RP-29	RP-050530	1391	-	Correction to GCF WI-12 approved RRC test case 8.3.1.30, 8.4.1.6 and NAS test case 12.3.2.7	F	5.1.0	5.2.0	R5s050270
RP-29	RP-050530	1392	-	Correction to Approved RRC Package 4 TC 8.4.1.33	F	5.1.0	5.2.0	R5s050269
RP-29	RP-050530	1393	-	Guard timer setting needs to be longer in test case 9.4.2.4 Procedure 2.	F	5.1.0	5.2.0	R5s050252
RP-29	RP-050530	1394	-	Corrections to WI-012 approved testcases 8.2.2.9 & 8.2.6.12	F	5.1.0	5.2.0	R5s050246
RP-29	RP-050530	1395	-	Corrections to WI-014 approved testcases 8.2.1.28, 8.2.4.36 & 8.2.1.30	F	5.1.0	5.2.0	R5s050247
RP-29	RP-050530	1396	-	Correction in Approved Test Case 12.2.2.1 of NAS_wk07.mp in iWD-TVB2003-03_D05wk07.zip	F	5.1.0	5.2.0	R5s050245
RP-29	RP-050530	1397	-	Correction to GCF WI-12 approved RRC test case 8.1.6.3	F	5.1.0	5.2.0	R5s050233
RP-29	RP-050530	1398	-	Multiple PICs definitions	F	5.1.0	5.2.0	R5s050241
RP-29	RP-050530	1399	-	ASN.1 changes required for introduction of band V & band VI	F	5.1.0	5.2.0	R5s050215
RP-29	RP-050530	1400	-	Summary of regression errors in the wk21 IR_U and IR_G ATS.	F	5.1.0	5.2.0	R5s050240
RP-29	RP-050530	1401	-	Correction to GCF WI-10 and WI-12 IR_U and IR_G test cases	F	5.1.0	5.2.0	R5s050239
RP-29	RP-050530	1402	-	Correction to IdleMode P1 TC 6.1.2.1	F	5.1.0	5.2.0	R5s050238
RP-29	RP-050530	1403	-	Summary of regression errors in the wk21 IR_U ATS.	F	5.1.0	5.2.0	R5s050230
RP-29	RP-050530	1404	-	Correction to GCF WI-10 test case 8.3.1.1	F	5.1.0	5.2.0	R5s050224
RP-29	RP-050530	1405	-	Correction to approved WI-010 RRC Test case 6_1_2_1	F	5.1.0	5.2.0	R5s050221
RP-29	RP-050531	1406	-	Correction to approved WI-010 RRC Test case 6_1_2_9	F	5.1.0	5.2.0	R5s050227
RP-29	RP-050531	1407	-	Correction to GCF WI-10 test case 8.2.1.10, 8.3.4.1, 8.3.4.2, 12.4.2.5a Proc 2	F	5.1.0	5.2.0	R5s050144
RP-29	RP-050531	1408	-	Correction to WI 12 approved testcase 8.3.1.30	F	5.1.0	5.2.0	R5s050222
RP-29	RP-050531	1409	-	Correction to approved testcase 8.2.6.19 and 8.2.6.20	F	5.1.0	5.2.0	R5s050223
RP-29	RP-050531	1410	-	Correction to GCF high priority MAC test case 7.1.2.4a	F	5.1.0	5.2.0	R5s050214
RP-29	RP-050531	1411	-	Correction to approved testcase 14.2.51b.1	F	5.1.0	5.2.0	R5s050209
RP-29	RP-050531	1412	-	Correction to approved testcase 8.3.7.12	F	5.1.0	5.2.0	R5s050203
RP-29	RP-050531	1413	-	Correction to GCF high priority NAS test case 12.4.1.4b	F	5.1.0	5.2.0	R5s050181
RP-29	RP-050531	1414	-	Regression Error Report based on wk19ATS	F	5.1.0	5.2.0	R5s050202
RP-29	RP-050531	1415	<u> -</u>	Summary of regression errors in the wk19 ATS.	F	5.1.0	5.2.0	R5s050196
RP-29	RP-050531	1416	-	Correction to approved testcase 14.2.58	F	5.1.0	5.2.0	R5s050194
RP-29	RP-050531	1417	-	Correction to WI-12 test case 12.9.7a	F	5.1.0	5.2.0	R5s050195
RP-29 RP-29	RP-050531 RP-050531	1418 1419	-	Summary of regression errors in the wk19 ATS. Correction to IE 'radioPrioTOM8' in Attach Accept	F F	5.1.0 5.1.0	5.2.0 5.2.0	R5s050186 R5s050193
RP-29	RP-050531	1420	-	message. Correction to softhandover test cases in RRC ATS	F	5.1.0	5.2.0	R5s050191
RP-29	RP-050531	1421	-	V5.0.0 Correction to RRC and RAB ATS v5.0.0 – regression	F	5.1.0	5.2.0	R5s050192
DD 20	DD 050504	1400		Correction of syntax arrar in approved test again	F	E 1 0	E 0 0	DE0050470
RP-29 RP-29	RP-050531 RP-050531	1422 1423	-	Correction of syntax error in approved test cases Correction to the approved IR_U test cases 8.4.1.33,	F	5.1.0 5.1.0	5.2.0 5.2.0	R5s050178 R5s050187
				8.4.1.34, 8.4.1.35, 8.4.1.36 and 8.4.1.40.				
RP-29	RP-050531	1424	-	Correction to RRC Package 2 TC 8.4.1.23	F	5.1.0	5.2.0	R5s050188
RP-29 RP-29	RP-050531 RP-050532	1425 1426	-	Correction to RRC P4 TC 8.4.1.41 Correction to approved testcase 14.2.38c and 14.2.40	-	5.1.0 5.1.0	5.2.0 5.2.0	R5s050172 R5s050177
RP-29	RP-050532	1426	[Summary of regression errors in the wk31 ATS.	F	5.1.0	5.2.0	R5s050177
RP-29	RP-050532	1428	-	Corrections to Approved Test case 8_2_1_29 based on wk31 ATS		5.1.0	5.2.0	R5s050354 R5s050327
RP-29	RP-050532	1429	<u> </u>	Corrections to Approved test case 8_2_1_30 based	F	5.1.0	5.2.0	R5s050329

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-29	RP-050532	1430	-	Corrections to Approved test case 8_2_1_31 based on wk31 ATS	F	5.1.0	5.2.0	R5s050331
RP-29	RP-050532	1431	-	Corrections to Approved test case 8_2_1_32 based on wk31 ATS	F	5.1.0	5.2.0	R5s050333
RP-29	RP-050532	1432	-	Corrections to Approved test case 8_2_6_42 based on wk31 ATS	F	5.1.0	5.2.0	R5s050335
RP-29	RP-050532	1433	-	Corrections to Approved test case 8_2_3_30 based on wk31 ATS	F	5.1.0	5.2.0	R5s050343
RP-29	RP-050532	1434	-	Corrections to Approved Testcase 8_2_1_28 based on wk31 ATS	F	5.1.0	5.2.0	R5s050297
RP-29	RP-050532	1435	-	Corrections to Approved Testcase 8_2_2_38 based on wk31 ATS	F	5.1.0	5.2.0	R5s050299
RP-29	RP-050532	1436	-	Corrections to Approved Testcase 8_2_3_30 based on wk31 ATS	F	5.1.0	5.2.0	R5s050301
RP-29	RP-050532	1437	-	Corrections to Approved Testcase 8_2_4_36 based on wk31 ATS	F	5.1.0	5.2.0	R5s050303
RP-29	RP-050532	1438	-	Corrections to Approved Testcase 8_3_1_32 based on wk31 ATS	F	5.1.0	5.2.0	R5s050305
RP-29	RP-050562	1439	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A.	F	5.1.0	5.2.0	-
RP-29	RP-050526	1440	-		F	5.1.0	5.2.0	R5-051510
RP-30	RP-050713	1441	-	CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.2.0	5.3.0	-
RP-30	RP-050766	1442	-	Addition of GCF WI-015 AGPS test case 17.2.4.7 to AGPS ATS V5.2.0	В	5.2.0	5.3.0	R5s050480
RP-30	RP-050766	1443	-	Addition of GCF WI-015 AGPS test case 17.2.4.6 to AGPS ATS V5.2.0	В	5.2.0	5.3.0	R5s050478
RP-30	RP-050766	1444	-		В	5.2.0	5.3.0	R5s050476
RP-30	RP-050766	1445	-	Addition of GCF WI-015 AGPS test case 17.2.4.3 to RLC ATS V5.1.0	В	5.2.0	5.3.0	R5s050419
RP-30	RP-050766	1446	-	Addition of GCF WI-015 AGPS test case 17.2.4.1 to RLC ATS V5.1.0	В	5.2.0	5.3.0	R5s050410
RP-30	RP-050768	1447	-	Addition of GCF WI-14/2 test case 8.2.3.32 to HS_ENH ATS V5.2.0 (Revision of R5s050451)	В	5.2.0	5.3.0	R5s050495
RP-30	RP-050768	1448	-	Addition of GCF WI-14/2 test case 8.2.3.34 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050449
RP-30	RP-050768	1449	-	Addition of GCF WI-014 test case 8.2.2.41 to HS_ENH ATS V5.2.0 (Revision of R5s050455)	В	5.2.0	5.3.0	R5s050466
RP-30	RP-050768	1450	-	Addition of GCF WI-014 RAB test case 14.6.3a to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050464
RP-30	RP-050768	1451	-	Addition of GCF WI-014 RAB test case 14.6.3 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050462
RP-30	RP-050768	1452	-	Addition of GCF WI-014 test case 8.3.4.9 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050457
RP-30	RP-050768	1453	-	Addition of GCF WI-014 test case 8.2.3.31 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050444
RP-30	RP-050768	1454	-	Addition of GCF WI-014 RAB test case 14.6.2 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050424
RP-30	RP-050768	1455	-	Additional Changes to GCF WI-014 test case 8.3.1.37	В	5.2.0	5.3.0	R5s050421
RP-30	RP-050768	1456	-	Addition of GCFWI-014 test case 8.3.11.10 to RRC ATS V5.1.0	В	5.2.0	5.3.0	R5s050412
RP-30	RP-050768	1457	-	Addition of GCF WI-014 test case 8.2.3.35 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050407
RP-30	RP-050768	1458	-	Addition of GCF WI-14/2 test case 8.2.6.46 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050405
RP-30	RP-050768	1459	-	Addition of GCF WI-14/2 test case 8.2.6.41 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050403
RP-30	RP-050768	1460	-	Addition of GCF WI-14/2 test case 8.3.1.36 to HS_ENH ATS V5.1.0	В	5.2.0	5.3.0	R5s050385
RP-30	RP-050768	1461	-	Addition of RRC GCF WI-14 test case 7.1.5.6 to RRC ATS v5.1.0	В	5.2.0	5.3.0	R5s050379
RP-30	RP-050775	1462	-	Addition of BMC GCF WI-10/3 test case 14.4.4 to RAB ATS V5.1.0	В	5.2.0	5.3.0	R5s050401
RP-30	RP-050775	1463	-	Revision of R5s050442 - Addition of GCF WI-10 Idle Mode Test Case 6.1.1.4 to RRC ATS 5.2.0	В	5.2.0	5.3.0	R5s050453
RP-30	RP-050775	1464	-		В	5.2.0	5.3.0	R5s050416
RP-30	RP-050775	1465	-	Addition of Cell Broadcast GCF WI-12 test case 16.3 to SMS ATS V5.1.0	В	5.2.0	5.3.0	R5s050399

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-30	RP-050775	1466	-	Addition of NAS GCF WI-10 P4 test case 12.9.12 to NAS ATS V5.1.0	В	5.2.0	5.3.0	R5s050395
RP-30	RP-050775	1467	-	Addition of NAS GCF WI-12 test case 9.4.2.4 proc 4 to NAS ATS V5.1.0	В	5.2.0	5.3.0	R5s050231
RP-30	RP-050778	1468	-	Addition of GCF WI-013 RRC test case 8.1.2.15 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050473
RP-30	RP-050778	1469	-	Addition of GCF WI-013 RRC test case 8.1.2.14 to HS ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050471
RP-30	RP-050778	1470	-	Addition of GCF WI-013 test case 8.3.11.13 to HS_ENH_r5 ATS V5.2.0.	В	5.2.0	5.3.0	R5s050437
RP-30	RP-050778	1471	-	Addition of GCF WI-13 RRC test case 8.1.6.5 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050497
RP-30	RP-050778	1472	-	Addition of GCF WI-013 RRC test case 8.3.1.40 to HS_ENH ATS V5.2.0	В	5.2.0	5.3.0	R5s050500
RP-30	RP-050768	1473	-	Removal of use of deprecated alternative value in RRC Connection Release message (Cell DCH) in HS_ENH suite	F	5.2.0	5.3.0	R5s050487
RP-30	RP-050768	1474	_	Removal of use of deprecated alternative value in RRC Connection Setup message (Cell FACH) in HS_ENH suite	F	5.2.0	5.3.0	R5s050489
RP-30	RP-050768	1475	-	Correction to GCF WI-14/2 HSDPA RRC test case 8.3.1.37	F	5.2.0	5.3.0	R5s050492
RP-30	RP-050768	1476	-	Additional changes required for addition of GCF WI- 014 test case 8.3.11.10 to RRC ATS V5.2.0.	F	5.2.0	5.3.0	R5s050460
RP-30	RP-050768	1477	-	Correction to GCF WI-14/2 testcase 8.3.1.36	F	5.2.0	5.3.0	R5s050439
RP-30	RP-050768	1478	-	Corrections to GCF WI-014/1 test cases 8.3.1.34	F	5.2.0	5.3.0	R5s050427
RP-30	RP-050768	1479	-	Correction to RRC HSDPA testcase 8.2.2.40	F	5.2.0	5.3.0	R5s050431
RP-30	RP-050773	1480	-	Removal of use of deprecated alternative value in RRC Connection Release message (Cell DCH) in all GCF WI-10 and WI-12 test suites	F	5.2.0	5.3.0	R5s050488
RP-30	RP-050773	1481	-	Correction to GCF WI-12 RRC test case 8.4.1.6	F	5.2.0	5.3.0	R5s050486
RP-30	RP-050773	1482	-	Corrections to RLC test cases to add check for the PIXIT px_CipheringOnOff	F	5.2.0	5.3.0	R5s050485
RP-30	RP-050773	1483	-	Removal of use of deprecated alternative value in RRC Connection Setup message (Cell FACH) in all GCF WI-10 and WI-12 test suites	F	5.2.0	5.3.0	R5s050490
RP-30	RP-050773	1484	-	Correction to the GCF WI-10 NAS test case 12.2.1.2	F	5.2.0	5.3.0	R5s050491
RP-30	RP-050773	1485	-	Correction to GCF WI-10 MAC test case 7.1.2.3.1	F	5.2.0	5.3.0	R5s050494
RP-30	RP-050773	1486	-	Correction to GCF WI-10 Idle Mode Test Case 6.1.2.1	F	5.2.0	5.3.0	R5s050469
RP-30	RP-050773	1487	-	Corrections required to GCF WI-10 approved test case 8.3.1.18	F	5.2.0	5.3.0	R5s050448
RP-30	RP-050773	1488	-	Corrections required to GCF WI-14 approved HSDPA test cases	F	5.2.0	5.3.0	R5s050435
RP-30	RP-050773	1489	-	TTCN correction to RRC TC 8.2.4.1	F	5.2.0	5.3.0	R5s050436
RP-30	RP-050773	1490	=	Corrections required to GCF W-I10 approved test case 8.4.1.40	F	5.2.0	5.3.0	R5s050434
RP-30	RP-050773	1491	-	Correction to the NAS Test Case 12.9.7a	F	5.2.0	5.3.0	R5s050429
RP-30	RP-050773	1492	-	Correction to the IR_U Test Case 8.3.7.3	F	5.2.0	5.3.0	R5s050430
RP-30	RP-050773	1493	-	Correction to MultiRAB Test Cases	F	5.2.0	5.3.0	R5s050432
RP-30 RP-30	RP-050773 RP-050773	1494 1495	-	Correction to GCF WI-10/2 RRC test case 8.3.1.21 Summary of regression errors in the wk38 ATS	F F	5.2.0 5.2.0	5.3.0 5.3.0	R5s050426 R5s050428
RP-30	RP-050773	1495	-	Summary of regression errors in wk38 of RRC ATS	F	5.2.0	5.3.0	R5s050428
RP-30	RP-050773	1496	<u>-</u>	Correction in TTCN for test case 7.2.3.19	F	5.2.0	5.3.0	R5s050414
RP-30	RP-050773	1498	-	Regression Error report based on wk36 ATS	F	5.2.0	5.3.0	R5s050419
RP-30	RP-050773	1499	-	Summary of regression results for wk36 version of IR_U ATS V5.1.0	F	5.2.0	5.3.0	R5s050384
RP-30	RP-050774	1500	-	Corrections required to GCF WI-10 approved test cases 6.2.1.7 and 6.2.1.8	F	5.2.0	5.3.0	R5s050394
RP-30	RP-050774	1501	-	Corrections required to GCF WI-10 approved test cases 8.3.7.5, 8.3.7.7 and 8.3.7.12	F	5.2.0	5.3.0	R5s050397
RP-30	RP-050774	1502	-	Correction to teststep ts_RRC_NAS_SessionActPS_MO_DCH_ToFACH.	F	5.2.0	5.3.0	R5s050390
RP-30	RP-050774	1503	<u> - </u>	Correction to GCF WI-10/4 RRC test case 8.1.3.9	F	5.2.0	5.3.0	R5s050378
RP-30	RP-050774	1504		Summary of regression errors in the wk36 ATS	F	5.2.0	5.3.0	R5s050391
RP-30	RP-050774	1505	-	Summary of regression errors in the wk36 IR_U ATS.	F	5.2.0	5.3.0	R5s050392
RP-30	RP-050774	1506	-	Correction to HS_ENH_wk36 – Regression errors	F	5.2.0	5.3.0	R5s050389
RP-30	RP-050774	1507	-	Correction to GCF WI-12 RRC test case 8.4.1.6	F F	5.2.0	5.3.0	R5s050376
RP-30 RP-30	RP-050774 RP-050774	1508 1509	-	Correction to Inter-RAT IR_U test case 8.3.11.4 Correction to generic procedure C.1 (Idle mode check)	F	5.2.0 5.2.0	5.3.0	R5s050377 R5s050375
RP-30	RP-050774	1510	<u> -</u>	Summary of regression errors in the wk31 ATS	F	5.2.0	5.3.0	R5s050367
RP-30	RP-050774	1511	-	Correction to the test case 14.2.43.1	F	5.2.0	5.3.0	R5s050368

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-30	RP-050774	1512	-	Correction to the NAS Test Case 12.9.13	F	5.2.0	5.3.0	R5s050374
RP-30	RP-050774	1513	-		F	5.2.0	5.3.0	R5s050373
RP-30	RP-050774	1514	-	Corrections required for approved GCF WI-10 RRC test cases 8.3.1.21 and 8.3.2.11	F	5.2.0	5.3.0	R5s050369
RP-30	RP-050774	1515	-	Corrections required for approved GCF WI-10 NAS test cases 9.4.2.3 and 9.4.2.5	F	5.2.0	5.3.0	R5s050370
RP-30	RP-050774	1516	-		F	5.2.0	5.3.0	R5s050372
RP-30	RP-050774	1517	-	Correction to GCF WI-010 test case 6.1.2.1 for manual attach UE	F	5.2.0	5.3.0	R5s050366
RP-30	RP-050774	1518	-	Correction to agreed testcase 8.2.6.8	F	5.2.0	5.3.0	R5s050357
RP-30	RP-050774	1519	-	Correction to agreed IR_U_wk31 MRAT testcases 8.3.9.1 and 8.3.9.5	F	5.2.0	5.3.0	R5s050358
RP-30	RP-050775	1520	-	Correction to P1 NAS Test Case 11.3.1 for AT command confirmation	F	5.2.0	5.3.0	R5s050359
RP-30	RP-050775	1521	-	Correction of the NAS Test Case 12.9.14	F	5.2.0	5.3.0	R5s050362
RP-30	RP-050775	1522	-	Correction to the test step ts_RRC_ReceiveRB_RelCmpl	F	5.2.0	5.3.0	R5s050363
RP-30	RP-050775	1523	-	Corrections required for QOS constraint in R99 ATS	F	5.2.0	5.3.0	R5s050364
RP-30	RP-050775	1524	-	Corrections required for QOS constraint in HSDPA/Rel-5 enhancement ATS	F	5.2.0	5.3.0	R5s050365
RP-30	RP-050775	1525	-	Summary of regression errors in the wk42 ATS.	F	5.2.0	5.3.0	R5s050499
RP-30	RP-050775	1526	-	Correction to Approved RRC TC 8.3.11.1	F	5.2.0	5.3.0	R5s050459
RP-30	RP-050769	1527	-	Update PIXIT and TSO, clarifications of a TSO and an AT / MMI commands in 34.123-3	F	5.2.0	5.3.0	R5-052110
RP-30	RP-050775	1528	-	Correction to iWD_wk38 IR_U ATS	F	5.2.0	5.3.0	R5s050470
RP-31	RP-060158	1529	-	Addition of GCF WI-015 AGPS test case 17.2.2.1 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050561
RP-31	RP-060158	1530	-	Addition of GCF WI-015 AGPS test case 17.2.2.2 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050563
RP-31	RP-060158	1531	-	Addition of GCF WI-015 AGPS test case 17.2.2.3 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050565
RP-31	RP-060158	1532	-	Addition of GCF WI-015 AGPS test case 17.2.2.4 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050587
RP-31	RP-060158	1533	-	Addition of GCF WI-015 AGPS test case 17.2.3.2 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050567
RP-31	RP-060158	1534	-	Addition of GCF WI-015 AGPS test case 17.2.3.3 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050589
RP-31	RP-060158	1535	-	Addition of GCF WI-015 AGPS test case 17.2.3.4 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050591
RP-31	RP-060158	1536	-	Addition of GCF WI-015 AGPS test case 17.2.3.8 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050593
RP-31	RP-060158	1537	-	Addition of GCF WI-015 AGPS test case 17.2.3.9 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050569
RP-31	RP-060158	1538	-	Addition of GCF WI-015 AGPS test case 17.2.4.2 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050595
RP-31	RP-060158	1539	-	Addition of GCF WI-015 AGPS test case 17.2.4.4 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050572
RP-31	RP-060158	1540	-	Addition of GCF WI-015 AGPS test case 17.2.4.5 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050574
RP-31	RP-060158	1541	-	Addition of GCF WI-015 AGPS test case 17.2.4.8 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050576
RP-31	RP-060158	1542	-	Addition of GCF WI-015 AGPS test case 17.2.4.9 to AGPS ATS V5.2.0	В	5.3.0	5.4.0	R5s050578
RP-31	RP-060148	1543	-	Addition of GCF WI-014 RAB test case 14.6.4 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050604
RP-31	RP-060148	1544	-	Addition of GCF WI-014 RAB test case 14.6.4a to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050606
RP-31	RP-060148	1545	-	Addition of GCF WI-014 RAB test case 14.6.5 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050608
RP-31	RP-060148	1546	-	Addition of GCF WI-014 RAB test case 14.6.5a to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050610
RP-31	RP-060148	1547	_	Addition of GCF WI-014/1 test case 7.1.5.2 to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050534
RP-31	RP-060148	1548	-	Addition of RRC GCF WI-14 test case 8.2.2.39 to RRC ATS v5.2.0	В	5.3.0	5.4.0	R5s050510
RP-31	RP-060148	1549	-	Addition of GCF WI-014 test case 8.2.2.42 to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050536
RP-31	RP-060148	1550	-	Addition of GCF WI-014/2 test case 8.2.3.33 to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050540
RP-31	RP-060148	1551	-	Addition of GCF WI-014 RRC test case 8.2.6.39a to HS_ENH ATS V5.2.0	В	5.3.0	5.4.0	R5s050516

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-31	RP-060148	1552	-	Addition of GCF WI-014 RRC test case 8.2.6.39b to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050598
RP-31	RP-060148	1553	-	Addition of GCF WI 14/2 test case 8.3.7.14 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050618
RP-31	RP-060158	1554	-	Addition of GCF WI-10/1 test case 6.1.2.2 to RRC ATS v5.2.0	В	5.3.0	5.4.0	R5s050556
RP-31	RP-060158	1555	-	Addition of RRC GCF WI-10 test case 6.1.2.3 to RRC ATS v5.3.0	В	5.3.0	5.4.0	R5s050614
RP-31	RP-060158	1556	-	Addition of GCF WI-10 Idle Mode test case 6.1.2.5	В	5.3.0	5.4.0	R5s060017
RP-31	RP-060158	1557	-	Addition of GCF WI-10 RRC test case 6.1.2.6 to RRC ATS V5.2.0	В	5.3.0	5.4.0	R5s050584
RP-31	RP-060158	1558	-	Addition of GCF WI-10/2 RRC test case 6.1.2.8 to RRC ATS V5.2.0	В	5.3.0	5.4.0	R5s050547
RP-31	RP-060158	1559	-	Addition of GCF WI-010/2 test case 6.2.2.3 to IR_U ATS V5.2.0	В	5.3.0	5.4.0	R5s050483
RP-31	RP-060158	1560	-	Addition of GCF WI-12 test case 8.4.1.48	В	5.3.0	5.4.0	R5s050612
RP-31	RP-060165	1561	-	Addition of GCF WI-13 test case 6.1.2.10	В	5.3.0	5.4.0	R5s060013
RP-31	RP-060165	1562	-	Addition of GCF WI-013 RRC test case 8.3.1.38 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050600
RP-31	RP-060165	1563	-	Addition of GCF WI-013 RRC test case 8.3.1.39 to HS_ENH ATS V5.3.0	В	5.3.0	5.4.0	R5s050602
RP-31	RP-060149	1564	-	Summary of regression errors in the wk03 HSD_ENH ATS	F	5.3.0	5.4.0	R5s060011
RP-31	RP-060149	1565	-	Corrections to GCF WI-014 RAB testcases 14.6.4 and 14.6.4a	F	5.3.0	5.4.0	R5s060038
RP-31	RP-060149	1566	-	Corrections to Approved GCF WI-014 RRC testcases 8.2.3.33	F	5.3.0	5.4.0	R5s060035
RP-31	RP-060149	1567	-	Summary of regression errors in wk03 HSDPA ATS.	F	5.3.0	5.4.0	R5s060030
RP-31	RP-060149	1568	-	Wk49 regression errors in HS_ENH ATS	F	5.3.0	5.4.0	R5s050623
RP-31	RP-060149	1569	-	Summary of regression errors in the wk49 HS_ENH ATS	F	5.3.0	5.4.0	R5s050621
RP-31	RP-060149	1570	-	Summary of regression errors in the wk49 HS_ENH ATS	F	5.3.0	5.4.0	R5s050617
RP-31	RP-060149	1571	-	Correction to GCF WI14 test case 8.3.4.9	F	5.3.0	5.4.0	R5s050620
RP-31	RP-060149	1572	-	Summary of regression errors in the wk49 HS_ENH ATS	F	5.3.0	5.4.0	R5s050581
RP-31	RP-060149	1573	-	Correction to GCF WI14 test case 14.6.1 and 14.6.2	F	5.3.0	5.4.0	R5s050560
RP-31	RP-060149	1574	-	Summary of regression errors in the wk47 HS_ENH ATS	F	5.3.0	5.4.0	R5s050532
RP-31	RP-060149	1575	-	Summary of regression errors in the wk47 HSDPA	F	5.3.0	5.4.0	R5s050550
RP-31	RP-060149	1576	-	Summary of regression errors in the HSENH r5 wk42 ATS.	F	5.3.0	5.4.0	R5s050529
RP-31	RP-060149	1577	-	Correction to GCF WI-014/2 test case 8.2.2.41	F	5.3.0	5.4.0	R5s050525
RP-31	RP-060149	1578	-		F	5.3.0	5.4.0	R5s050513
RP-31	RP-060149	1579	-	Corrections to Testcase 8.3.1.35	F	5.3.0	5.4.0	R5s050518
RP-31	RP-060149	1580	-	Update to HS_ENH_r5 ATS to allow 64k uplink data rate to be tested for RRC Testcases.	F	5.3.0	5.4.0	R5s050519
RP-31	RP-060149	1581	-	Errors identified in RAB HSDPA testcases in wk42 ATS.	F	5.3.0	5.4.0	R5s050520
RP-31	RP-060149	1582	-	Summary of regression errors in the wk42 HSDPA	F	5.3.0	5.4.0	R5s050503
RP-31	RP-060159	1583	<u> -</u>	Correction to GCF WI-10 test case 8.4.1.14	F	5.3.0	5.4.0	R5s050512
RP-31	RP-060159	1584	-	TTCN correction to Approved RRC TCs 8.3.4.1, 8.3.4.2 and 8.3.4.3	F	5.3.0	5.4.0	R5s060044
RP-31	RP-060159	1585	-	Summary of regression errors in wk03 RRC and RAB ATS.	F	5.3.0	5.4.0	R5s060042
RP-31	RP-060159	1586	-	Correction of GCF WI-10 RRC test case 8.4.1.2,8.4.1.24,8.4.1.25	F	5.3.0	5.4.0	R5s060043
RP-31	RP-060159	1587	-	Summary of regression errors in the wk03 GCF WI-10 and GCF WI-12 ATS	F	5.3.0	5.4.0	R5s060010
RP-31	RP-060159	1588	-	Correction to GCF WI-10 RRC Test Case 6.1.1.4	F	5.3.0	5.4.0	R5s060024
RP-31	RP-060159	1589	ļ-	Correction to GCF WI-12 Testcase 9.4.5.4.6	F	5.3.0	5.4.0	R5s060025
RP-31	RP-060159	1590	 -	Correction to GCF WI-10 NAS Test Case 12.4.1.4a	F	5.3.0	5.4.0	R5s060040
RP-31	RP-060159	1591	<u> </u>	Correction of GCF WI-10 RRC test case 8.1.7.1d	F	5.3.0	5.4.0	R5s060039
RP-31	RP-060159	1592		Corrections to approved GCF WI-12/1 Inter-RAT test case 8.4.1.48	F	5.3.0	5.4.0	R5s060029
RP-31	RP-060159	1593	-	Corrections to approved GCF WI-10/3 InterRAT test case 8.4.1.31	F	5.3.0	5.4.0	R5s060028
RP-31	RP-060159	1594	-	Corrections to GCF WI-012 GMM testcase 12.9.9	F	5.3.0	5.4.0	R5s060037

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-31	RP-060159	1595	-	Corrections to Approved GCF WI-012 RRC testcases 8.2.1.24 & 8.2.1.34	F	5.3.0	5.4.0	R5s060036
RP-31	RP-060159	1596	-	Correction of GCF WI-10 RRC test case 8.4.1.26	F	5.3.0	5.4.0	R5s060033
RP-31	RP-060159	1597	-	Correction of GCF WI-12 MM test case 9.4.3.3	F	5.3.0	5.4.0	R5s060032
RP-31	RP-060159	1598	-	Summary of regression errors in wk49 ATS.	F	5.3.0	5.4.0	R5s060009
RP-31	RP-060159	1599	-	Correction to GCF WI-12 RLC Test Case 7.2.3.35	F	5.3.0	5.4.0	R5s060008
RP-31	RP-060159	1600	-	Correction to GCF WI-10 test case 6.1.2.9	F	5.3.0	5.4.0	R5s060007
RP-31	RP-060159	1601	-	Correction to GCF WI-10 test case 8.1.3.9	F	5.3.0	5.4.0	R5s060003
RP-31	RP-060159	1602	-	Summary of regression errors in the wk49 IR_U ATS.	F	5.3.0	5.4.0	R5s060006
RP-31	RP-060160	1603	-	Summary of regression errors in the wk47 ATS.	F	5.3.0	5.4.0	R5s050551
RP-31	RP-060160	1604	-	TTCN correction to Approved GMM TC 12.4.2.4	F	5.3.0	5.4.0	R5s060004
RP-31	RP-060160	1605	-	Corrections to GCF WI-012 approved testcases 9.4.3.3	F	5.3.0	5.4.0	R5s060002
RP-31	RP-060160	1606	-	Correction to GCF WI-10 RRC Test Case 8.1.7.1c	F	5.3.0	5.4.0	R5s060001
RP-31	RP-060160	1607	-	TTCN Correction for GCF WI-10 RRC test case 6.1.2.8	F	5.3.0	5.4.0	R5s050586
RP-31	RP-060160	1608	-	TTCN correction to Approved IRAT TCs 8.3.7.1, 8.3.7.2, 8.3.7.3, 8.3.7.4, 8.3.7.13, 8.3.7.16 and 8.3.11.1.	F	5.3.0	5.4.0	R5s050622
RP-31	RP-060160	1609	-	Correction to approved RRC test cases 8.1.6.3, 8.4.1.1, 8.4.1.3 and 8.4.1.29 on Wk49 ATS	F	5.3.0	5.4.0	R5s050571
RP-31	RP-060160	1610	-	Correction to GCF WI 10 RLC testcase 7.2.2.2	F	5.3.0	5.4.0	R5s050583
RP-31	RP-060160	1611	-	Summary of regression errors in the wk49 GCF WI-10 and GCF WI-12 ATS	F	5.3.0	5.4.0	R5s050580
RP-31	RP-060160	1612	-	Corrections to approved GCF WI-010 / GCF WI-012 test cases 14.2.51b.1 and 14.2.58a	F	5.3.0	5.4.0	R5s050597
RP-31	RP-060160	1613	-	TTCN correction to Approved IRAT TC 8.3.7.16	F	5.3.0	5.4.0	R5s050552
RP-31	RP-060160	1614	-	Correction to GCF WI-10 approved RRC Test Case 8.1.7.1d	F	5.3.0	5.4.0	R5s050582
RP-31	RP-060160	1615	-	Correction to GCF Test Case 8.4.1.2, 8.4.1.24, 8.4.1.25, 8.4.1.6, 8.4.1.8 and HSDPA Test Cases	F	5.3.0	5.4.0	R5s050545
RP-31	RP-060160	1616	-	Summary of regression errors in the wk47 GCF WI-10 and GCF WI-12 ATS	F	5.3.0	5.4.0	R5s050533
RP-31	RP-060160	1617	-	Correction to the GCF WI 10 testcase 7.2.3.13	F	5.3.0	5.4.0	R5s050538
RP-31	RP-060160	1618	-	Correction to GCF WI 10 MAC test case 7.1.2.3.1	F	5.3.0	5.4.0	R5s050539
RP-31	RP-060160	1619	-	Correction to IR_U test cases 8.3.7.1, 8.3.7.2, 8.3.7.3, 8.3.7.12 and 8.3.7.16	F	5.3.0	5.4.0	R5s050493
RP-31	RP-060160	1620	-	Correction to GCF WI 10 test case 7.1.2.4a	F	5.3.0	5.4.0	R5s050555
RP-31	RP-060160	1621	-	Corrections to GCF WI-012 approved test case 16.3	F	5.3.0	5.4.0	R5s050554
RP-31	RP-060160	1622	-	Correction to approved GCF WI-010 Test Case 16.1.1	F	5.3.0	5.4.0	R5s050549
RP-31	RP-060161	1623	-	TTCN correction to Approved RRC TC 8.1.2.7	F	5.3.0	5.4.0	R5s050553
RP-31	RP-060161	1624	-	Correction to GCF WI-10 RRC Test Case 8.3.1.18	F	5.3.0	5.4.0	R5s050543
RP-31	RP-060161	1625	-	Correction to GCF WI-10 RRC Test Case 8.1.1.9	F	5.3.0	5.4.0	R5s050544
RP-31	RP-060161	1626	-	Correction to GCF WI-12 test case 8.1.6.3	F	5.3.0	5.4.0	R5s050531
RP-31	RP-060161	1627	-	Summary of regression errors in the wk42 ATS.	F	5.3.0	5.4.0	R5s050528
RP-31	RP-060161	1628	-	Correction to GCF WI-10/3 Testcase 12.4.2.4	F	5.3.0	5.4.0	R5s050505
RP-31	RP-060161	1629	-	Correction to test step ts_Exit_Testcase used in MultiRAB test cases	F	5.3.0	5.4.0	R5s050514
RP-31	RP-060161	1630	-	Correction to GCF WI-010/1 test case 7.1.2.4a	F	5.3.0	5.4.0	R5s050524
RP-31	RP-060161	1631	-	Correction to the GCF WI 12 NAS Test Case 9.4.3.3	F	5.3.0	5.4.0	R5s050515
RP-31	RP-060161	1632	-	Correction to GCF WI 10 and GCF WI 12 ATS to support IPv6 format for PDP Context	F	5.3.0	5.4.0	R5s050521
RP-31	RP-060161	1633	-	Summary of regression errors in the wk42 GCF WI-10 and GCF WI-12 ATS		5.3.0	5.4.0	R5s050482
RP-31	RP-060161	1634	-	Correction to GCF WI-13 test case 8.1.2.14	F	5.3.0	5.4.0	R5s050526
RP-31	RP-060161	1635	-	Correction to GCF WI-13 test case 8.1.2.15	F	5.3.0	5.4.0	R5s050527
RP-31	RP-060161	1636	-	Correction to GCF WI-12 test case 9.4.3.3	F	5.3.0	5.4.0	R5s050509
RP-31	RP-060161	1637	-	Correction to GCF WI-10 test case 8.1.3.9	F	5.3.0	5.4.0	R5s050507
RP-31	RP-060161	1638	-	Corrections of TC_16_2_1, TC_16_2_2, TC_16_1_9_1, TC_16_1_9_2	F	5.3.0	5.4.0	R5s050506
RP-31	RP-060161	1639	-	Correction to GCF WI-10 RAB Test Case 14.2.38c	F	5.3.0	5.4.0	R5s050504
RP-31	RP-060165	1640	-	Correction to GCF WI 13/1 RRC testcases 8.3.1.38 and 8.3.1.39	F	5.3.0	5.4.0	R5s060023
RP-31	RP-060165	1641	<u> </u>	Corrections to Approved GCF WI-013 RRC testcase 8_1_2_14 & WI-014 RRC testcase 8_2_2_42	F	5.3.0	5.4.0	R5s060034
RP-31	RP-060165	1642	-	Summary of regression errors in wk03 HSDPA ATS (GCF WI-13).	F	5.3.0	5.4.0	R5s060031
RP-31	RP-060165	1643	-	Corrections to GCF WI-013 test cases 8.1.6.5 and 8.3.1.40	F	5.3.0	5.4.0	R5s050523
RP-31	RP-060165	1644	-	Correction to Rel-5 (HSENH) ATS to support IPv6 format for PDP Context.	F	5.3.0	5.4.0	R5s050522

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-31	RP-060162	1645	-	Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.3.0	5.4.0	-
RP-31	RP-060166	1646	_	Introduce ASP for HSUPA in 34.123-3	В	5.3.0	5.4.0	R5-060560
RP-31	RP-060147	1647	-	Introduce ASP for HSDPA of LCR TDD	В	5.3.0	5.4.0	R5-060317
RP-31	RP-060147	1648	ļ-	Updating Information in section 8.2.4 (Table 35)	F	5.3.0	5.4.0	R5-060287
RP-31	RP-060154	1649	ļ_	Correction of default value for IXIT parameter	F	5.3.0	5.4.0	R5-060178
				'px_CipherAlg'.				
RP-31	RP-060154	1650	-	New ASP for DTM and other corrections in 34.123-3 Release 99	F	5.3.0	5.4.0	R5-060505
RP-31	RP-060164	1651	-	Update configurations, introduce frequency band indicator for SS in 34.123-3 - Release 5.	F	5.3.0	5.4.0	R5-060316
RP-32	RP-060338	1652	l <u>-</u>	Update HSDPA test configuration	F	5.4.0	5.5.0	R5-061004
RP-32	RP-060338	1653	ļ-	Change of ASP and IEs for LCR TDD	F	5.4.0	5.5.0	R5-061300
RP-32	RP-060333	1654	İ-	Update E-DCH test model and ASP (CR to 34.123-3)	F	5.4.0	5.5.0	R5-061285
RP-32	RP-060324	1655	ļ-	Update PIXIT	F	5.4.0	5.5.0	R5-061003
RP-32	RP-060324	1656	-	Correction to ASP CPHY_TFCI_Detected_IND	F	5.4.0	5.5.0	R5-061377
RP-32	RP-060321	1657	-	CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.4.0	5.5.0	-
RP-32	RP-060339	1658	-	Addition of GCF WI14 test case 8.2.6.48 to HSD_ENH ATS V5.4.0	В	5.4.0	5.5.0	R5s060139
RP-32	RP-060327	1659	-	Addition of GCF WI-12 test case 8.3.4.8	В	5.4.0	5.5.0	R5s060019
RP-32	RP-060327	1660	-	Addition of GCF WI12 RRC test case 8.2.2.43 to RRC ATS v5.3.0	В	5.4.0	5.5.0	R5s060084
RP-32	RP-060327	1661	-	Addition of GCF WI12 RRC test case 8.2.6.39 to RRC ATS v5.4.0 (Revision of R5s060076)	В	5.4.0	5.5.0	R5s060080
RP-32	RP-060327	1662	-	Addition of GCF WI12 RRC test case 8.2.6.44 to RRC ATS v5.4.0 (Revision of R5s060078)	В	5.4.0	5.5.0	R5s060082
RP-32	RP-060327	1663	ļ-	Addition of GCF WI-10 MM test case 9.4.5.4.1	В	5.4.0	5.5.0	R5s060066
RP-32	RP-060330	1664	-	Addition of GCF WI-13 RRC test case 8.4.1.47 to HSD_ENH ATS v5.3.0	В	5.4.0	5.5.0	R5s060070
RP-32	RP-060330	1665	-	Addition of GCF WI13 Inter-RAT cell change order from UTRAN test case 8.3.11.12 to HSD_ENH ATS v5.4.0 (Revision of R5s060092)	В	5.4.0	5.5.0	R5s060094
RP-32	RP-060339	1666	-	14_6_2, 14_6_5a 14_6_5, 14_6_5a	F	5.4.0	5.5.0	R5s060059
RP-32	RP-060339	1667	-	Correction to GCF WI14 test case 8_3_1_34 and 8_3_1_36	F	5.4.0	5.5.0	R5s060061
RP-32	RP-060339	1668	-	Change of the relative channel powers for HS- PDSCH and HS-SCCH	F	5.4.0	5.5.0	R5s060074
RP-32	RP-060339	1669	-	Corrections to RAB testcase 14.6.3a	F	5.4.0	5.5.0	R5s060121
RP-32	RP-060339	1670		Correction to teststep ts_RRC_MultiCallEstPS_MO_HSDPA, ts_RRC_NAS_SessionActPS_MO_P9_P10_HS	F	5.4.0	5.5.0	R5s060114
RP-32	RP-060339	1671	-	Corrections to GCF WI 14 RRC test case 8.2.3.34	F	5.4.0	5.5.0	R5s060115
RP-32	RP-060330	1672		Revised summary of regression errors in IR_U and HSD_ENH_R5 ATS (wk03, 2006)	F	5.4.0	5.5.0	R5s060088
RP-32	RP-060330	1673	ļ_	Correction to GCF WI13 test case 6.1.2.10	F	5.4.0	5.5.0	R5s060075
RP-32	RP-060330	1674	-	Correction to GCF WI-13 Idle Mode test case 6.1.2.10	F	5.4.0	5.5.0	R5s060089
RP-32	RP-060330	1675	-	Corrections to Approved GCF WI-013 RRC testcases 8.4.1.47		5.4.0	5.5.0	R5s060135
RP-32	RP-060330	1676	-	Additional CR for agreed TC 8.3.11.12 (8.3.11.13 implicitly affected)	F	5.4.0	5.5.0	R5s060118
RP-32	RP-060325	1677	-	Correction to GCF WI-10 RRC Test Case 6.2.2.2	F	5.4.0	5.5.0	R5s060050
RP-32	RP-060325	1678	-	Correction of GCF WI-10 test case 8.4.1.5	F	5.4.0	5.5.0	R5s060049
RP-32	RP-060325	1679		Summary of regression errors in the wk06 ATS.	F	5.4.0	5.5.0	R5s060056
RP-32	RP-060325	1680	-	Corrections to Security procedure to make UL SRB3 ciphering preconfiguration optional	F	5.4.0	5.5.0	R5s060057
RP-32	RP-060325	1681	-	Summary of regression errors in the wk06 GCF WI-10 and GCF WI-12 ATS	F	5.4.0	5.5.0	R5s060047
RP-32	RP-060325	1682	-	Correction to the test step ts_DownlinkTBFEstablishment	F	5.4.0	5.5.0	R5s060060
RP-32	RP-060325	1683	<u> </u>	Change to expected value of Qos 'DeliveryOrder' IE.	F	5.4.0	5.5.0	R5s060058
RP-32	RP-060325	1684	-	Clarification of the usage of 4 PICS parameters	F	5.4.0	5.5.0	R5s060053
RP-32	RP-060325	1685	-	Correction to approved GCF WI-10/2 InterRAT test case 6.2.2.2	F	5.4.0	5.5.0	R5s060055
RP-32	RP-060325	1686	-	Correction to approved GCF WI-10/2 InterRAT test case 6.2.2.1	F	5.4.0	5.5.0	R5s060054
RP-32	RP-060325	1687	-	Corrections to IRU Measurement test cases for handling of UL only and DI only compressed mode branches	F	5.4.0	5.5.0	R5s060051

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-32	RP-060325	1688	-	Generic correction to test step 'ts_MM_IMSI_Detach'	F	5.4.0	5.5.0	R5s060069
RP-32	RP-060325	1689	-	Correction to GCF WI-12 RAB Test Case 14.2.9	F	5.4.0	5.5.0	R5s060068
RP-32	RP-060325	1690	-	Summary of regression errors in the wk09 GCF WI-10 and GCF WI-12 ATS		5.4.0	5.5.0	R5s060073
RP-32	RP-060325	1691	-	Corrections to GCF WI-10 IR_U test case 6.2.1.7 and 6.2.1.8	F	5.4.0	5.5.0	R5s060072
RP-32	RP-060325	1692	-	Correction to RRC test cases 8.1.1.1 and 8.1.1.9	F	5.4.0	5.5.0	R5s060086
RP-32	RP-060325	1693	-	Correction to WI10 Idle Mode test case 6.1.2.6	F	5.4.0	5.5.0	R5s060087
RP-32	RP-060325	1694	-	Correction to the IR_U test case 6.2.2.3	F	5.4.0	5.5.0	R5s060091
RP-32	RP-060325	1695	-	Correction to SM GCF WI 10 test case 11.3.1	F	5.4.0	5.5.0	R5s060090
RP-32	RP-060325	1696	-	Correction to GCF WI-12 Testcase 9.4.3.3	F	5.4.0	5.5.0	R5s060101
RP-32	RP-060326	1697	-	Correction to GCF WI-12 Testcase 9.4.5.4.6	F	5.4.0	5.5.0	R5s060102
RP-32	RP-060326	1698	-	Correction to GCF WI-10 Testcase 8.1.7.1c	F	5.4.0	5.5.0	R5s060103
RP-32	RP-060326	1699	-	Correction to GCF WI-15 Test Cases	F	5.4.0	5.5.0	R5s060104
RP-32	RP-060326	1700	-	TTCN correction to Approved RRC TCs 8.3.4.1, 8.3.4.2 and 8.3.4.3	F	5.4.0	5.5.0	R5s060096
RP-32	RP-060326	1701	-	TTCN correction to Approved RRC TC 8.4.1.14	F	5.4.0	5.5.0	R5s060095
RP-32	RP-060326	1702	-	Correction of approved IR_U test case 8.3.11.1.	F	5.4.0	5.5.0	R5s060097
RP-32	RP-060326	1703	-	Correction of approved HSD_ENH_R5 test cases 8.3.11.9, 8.3.11.13 and of 8.3.11.12 (under approval).	F	5.4.0	5.5.0	R5s060098
RP-32	RP-060326	1704	1-	Correction to GCF WI-10 GMM test case 12.4.2.4	F	5.4.0	5.5.0	R5s060110
RP-32	RP-060326	1705	-	Correction in TTCN for RLC Test cases 7.2.3.21, 7.2.3.22 and 7.2.3.24	F	5.4.0	5.5.0	R5s060109
RP-32	RP-060326	1706	 -	Correction to RRC GCF WI 12 test case 8.3.1.30	F	5.4.0	5.5.0	R5s060106
RP-32	RP-060326	1707	1_	Corrections to RAB testcase 14.2.41	F	5.4.0	5.5.0	R5s060120
RP-32	RP-060326	1708	-	Correction to GCF WI-10 RRC Test Case 8.1.1.9	F	5.4.0	5.5.0	R5s060119
RP-32	RP-060326	1709	-	Correction to the constraints used for the Radio Bearer Reconfiguration Message	F	5.4.0	5.5.0	R5s060113
RP-32	RP-060326	1710	1	Correction to RRC test cases 8.3.1.21 and 8.3.2.11	F	5.4.0	5.5.0	R5s060112
RP-32	RP-060326	1711	Ι-	Summary of regression errors in the wk11 ATS.	F	5.4.0	5.5.0	R5s060112
RP-32	RP-060326	1712	E	Corrections to TTCN test cases due to the review of	F	5.4.0	5.5.0	R5s060111
111 -32	N1 -000320	1712		34.123-2 and, related, the implementation of test case selection expressions in the TTCN.	1 -	5.4.0	3.3.0	103000110
RP-32	RP-060326	1713	1-	Empty all PCOs when TC begins	F	5.4.0	5.5.0	R5s060064
RP-32	RP-060326	1714	-	Correction to QOS parameters for UMTS only	F	5.4.0	5.5.0	R5s060041
				mobiles				
RP-32	RP-060326	1715	-	Correction to GCF Test Case 8.4.1.25	F	5.4.0	5.5.0	R5s060141
RP-32	RP-060326	1716	-	Correction to GCF WI-10 Testcase 7.2.3.21	F	5.4.0	5.5.0	R5s060126
RP-32	RP-060327	1717	-	Correction to GCF WI-12 Testcase 9.4.3.3	F	5.4.0	5.5.0	R5s060127
RP-32	RP-060327	1718	-	Correction to GCF WI-10 IR-U Test Case 6.2.2.3	F	5.4.0	5.5.0	R5s060128
RP-32	RP-060327	1719	-	Correction to the RRC test case 6.1.2.8	F	5.4.0	5.5.0	R5s060123
RP-32	RP-060327	1720	-	Correction to GCF WI-12 NAS Test Case 9.4.3.3	F	5.4.0	5.5.0	R5s060122
RP-32	RP-060327	1721	-	Correction to GCF WI-10 SMS Test Case 16.x	F	5.4.0	5.5.0	R5s060136
RP-32 RP-32	RP-060327 RP-060327	1722 1723	-	Correction to the IR_U test case 8.3.11.1 Correction to the approved IR_U test cases 8.3.7.1	F	5.4.0 5.4.0	5.5.0 5.5.0	R5s060130 R5s060131
DD 00	DD 000007	4704		and 8.3.7.3	_	5.4.0	5.5.0	DE-000404
RP-32 RP-32	RP-060327 RP-060327	1724 1725	-	Correction to the GCF WI-12 test case 8.4.1.48 Correction to the common security teststeps to add	F F	5.4.0 5.4.0	5.5.0 5.5.0	R5s060134 R5s060133
DD 55	DD 00000	4===		the default test step	_	5 4 2		DE 000155
RP-32	RP-060327	1726	-	Correction to Cell Broadcast test case 16.3	F	5.4.0	5.5.0	R5s060125
RP-32	RP-060327	1727	-	Correction to the RRC test case 8.1.1.9	F	5.4.0	5.5.0	R5s060124
RP-32 RP-32	RP-060327 RP-060327	1728 1729	-		F F	5.4.0 5.4.0	5.5.0 5.5.0	R5s060132 R5s060117
RP-33	RP-060548	1730	-	multiple ATSs CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	5.5.0	5.6.0	-
RP-33	RP-060555	1731	<u> </u>	Correction to the RRC testcase 8.4.1.23	F	5.5.0	5.6.0	R5s060225
RP-33	RP-060555	1732	1-	Correction to the RRC testcase 8.4.1.25	F	5.5.0	5.6.0	R5s060226
RP-33	RP-060555	1733	1-	Correction to the GMM test case 12.9.7b	F	5.5.0	5.6.0	R5s060223
RP-33	RP-060555	1734	-	Correction of Inter RAT testcase 12.8	F	5.5.0	5.6.0	R5s060222
RP-33	RP-060555	1735	-	Summary of regression errors in wk29 GCF WI-10 ATS	F	5.5.0	5.6.0	R5s060227
RP-33	RP-060555	1736	-	Correction to GCF WI-010/1 approved test case 7.2.3.27	F	5.5.0	5.6.0	R5s060230
RP-33	RP-060555	1737	-	Correction to GCF WI-12/1 approved test case 8.2.2.43	F	5.5.0	5.6.0	R5s060231
RP-33	RP-060569	1738	1-	Correction to test cases 14.6.4	F	5.5.0	5.6.0	R5s060229
RP-33	RP-060555	1739	1-	Correction to test cases 8.2.2.35 & tcv_BcapMmedia	F	5.5.0	5.6.0	R5s060232
RP-33	RP-060555	1740	-	Correction to GCF WI10 RRC Test Case 8.4.1.5	F	5.5.0	5.6.0	R5s060218
RP-33	RP-060555	1741	-	Correction to approved GCF WI-12 RAB test case	F	5.5.0	5.6.0	R5s060221
				14.2.58a				

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-33	RP-060555	1742	-	Correction to approved GCF WI-12 RRC test cases 8.2.6.39 and 8.2.6.44	F	5.5.0	5.6.0	R5s060220
RP-33	RP-060555	1743	-	Correction to approved GCF WI-10 RLC test case 7.2.3.17	F	5.5.0	5.6.0	R5s060219
RP-33	RP-060555	1744	-	Summary of Regression Errors in NAS wk29 ATS	F	5.5.0	5.6.0	R5s060217
RP-33	RP-060569	1745	-	Correction GCF WI-14 HSDPA Test Case 8.2.1.27	F	5.5.0	5.6.0	R5s060214
RP-33	RP-060569	1746	-	Correction to test cases 14.6.6	F	5.5.0	5.6.0	R5s060215
RP-33	RP-060555	1747	-	Summary of Regression Errors in WK29 ATS	F	5.5.0	5.6.0	R5s060212
RP-33	RP-060555	1748	-	ASP enhancement for HSUPA testing	F	5.5.0	5.6.0	R5s060196
RP-33	RP-060569	1749	-	Summary of regression errors in the wk27 HSD Suite	F	5.5.0	5.6.0	R5s060209
RP-33	RP-060555	1750	-	Summary of regression errors in the wk27 RLC ATS	F	5.5.0	5.6.0	R5s060210
RP-33	RP-060555	1751	-	Corrections to GCF WI-12/1 approved test case 7.1.3.2	F	5.5.0	5.6.0	R5s060208
RP-33	RP-060554	1752	-	ATS v5.5.0	В	5.5.0	5.6.0	R5s060201
RP-33	RP-060555	1753	-	12.9.7a.	F	5.5.0	5.6.0	R5s060206
RP-33	RP-060569	1754	-	Summary of Regression Errors in HSDPA ATS	F	5.5.0	5.6.0	R5s060207
RP-33	RP-060555	1755	-	Summary of regression errors in the wk27 GCF WI-10 and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060205
RP-33	RP-060555	1756	-	Correction to GCF WI-10 Idle Mode test case 6.1.2.5	F	5.5.0	5.6.0	R5s060203
RP-33	RP-060556	1757	-	Correction to GCF WI-10 RRC test case 8.3.4.3	F	5.5.0	5.6.0	R5s060204
RP-33	RP-060556	1758	-	Regression Error report for RRC & MAC ATS	F	5.5.0	5.6.0	R5s060199
RP-33	RP-060559	1759	-	Regression Error report for HSD_ENH_r5 ATS	F	5.5.0	5.6.0	R5s060200
RP-33	RP-060559	1760	-	Correction of CC procedure for multimedia calls	F	5.5.0	5.6.0	R5s060063
RP-33	RP-060556	1761	-	Corrections to GCF WI-10 RRC Test Case 8.4.1.24 and 8.4.1.25	F	5.5.0	5.6.0	R5s060198
RP-33	RP-060554	1762	-	AGPS ATS V5.5.0	В	5.5.0	5.6.0	R5s060193
RP-33	RP-060554	1763	-	Addition of GCF WI-015 AGPS test case 17.2.3.6 to AGPS ATS V5.5.0	В	5.5.0	5.6.0	R5s060192
RP-33	RP-060556	1764	-	Correction to GCF WI-12 NAS Test Case 12.9.9	F	5.5.0	5.6.0	R5s060197
RP-33	RP-060556	1765	-	Correction to the RRC testcase 8.2.3.8	F	5.5.0	5.6.0	R5s060190
RP-33	RP-060556	1766	-	Correction to the RRC testcase 8.2.4.1	F	5.5.0	5.6.0	R5s060191
RP-33	RP-060556	1767	-	Correction of GCF WI-10 RRC Test Case 8.3.1.10 and 8.3.2.4	F	5.5.0	5.6.0	R5s060186
RP-33	RP-060556	1768	-	Correction to the Security procedure	F	5.5.0	5.6.0	R5s060189
RP-33	RP-060556	1769	-	Correction to GCF WI-10 NAS Test Case 11.1.1.1	F	5.5.0	5.6.0	R5s060178
RP-33 RP-33	RP-060556 RP-060556	1770 1771	-	Correction to GCF WI-12 RRC Test Case 8.1.1.10 Correction to the test step ts_ToStateMOCompressMode_CS_6_9_PS_6_10	F F	5.5.0 5.5.0	5.6.0 5.6.0	R5s060187 R5s060188
RP-33	RP-060561	1772		Moving baseline to the June 06, Rel-6	F	5.5.0	5.6.0	R5s060183
RP-33	RP-060556	1773	-	Corrections to GCF WI-10 SMS Test Cases 16.1.1 and 16.1.2	F	5.5.0	5.6.0	R5s060185
RP-33	RP-060559	1774	-	Corrections to GCF WI-13 Test Case 8.3.11.13	F	5.5.0	5.6.0	R5s060184
RP-33	RP-060556	1775	-	Correction GCF WI-12 Inter-RAT Test Case 8.4.1.48	F	5.5.0	5.6.0	R5s060182
RP-33	RP-060569	1776	-	Corrections to GCF WI 14 test case 14.6.4	F	5.5.0	5.6.0	R5s060181
RP-33	RP-060556	1777	<u> </u>	Correction of GCF WI-10 Idle Mode Testcase 6.1.2.6	F	5.5.0	5.6.0	R5s060180
RP-33	RP-060556	1778	-	Correction of value for t_IdlePageTimer timer	F	5.5.0	5.6.0	R5s060175
RP-33	RP-060556	1779	-	Correction to GCF WI-12 NAS Test Case 12.9.9	F	5.5.0	5.6.0	R5s060176
RP-33	RP-060556	1780	-		F	5.5.0	5.6.0	R5s060179
RP-33	RP-060556	1781	_	Summary of regression errors in wk23 GCF WI-10 and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060177
RP-33	RP-060556	1782	-	Correction to the test step ts_U2GCellChange_RAUpdate	F	5.5.0	5.6.0	R5s060174
RP-33	RP-060556	1783	-	Corrections to GCF WI 12/1 IR_U test case 8_4_1_48	F	5.5.0	5.6.0	R5s060173
RP-33	RP-060569	1784	<u> -</u>	Correction to test case 8.2.6.48	F	5.5.0	5.6.0	R5s060170
RP-33	RP-060559	1785	-	Correction to test case 8.1.6.5	F	5.5.0	5.6.0	R5s060171
RP-33	RP-060557	1786	-	Correction to test step ts_SS_Rel	F	5.5.0	5.6.0	R5s060172
RP-33	RP-060557	1787	<u> -</u>	Correction to the GCF WI-12 RRC testcase 8.1.6.3	F	5.5.0	5.6.0	R5s060169
RP-33	RP-060557	1788	<u> -</u>	Correction to the GCF WI-10 NAS test case 12.4.2.4	F	5.5.0	5.6.0	R5s060166
RP-33	RP-060557	1789	-	Correction to the GCF WI-10 RRC test case 8.4.1.2	F	5.5.0	5.6.0	R5s060167
RP-33	RP-060557	1790	-	Summary of regression errors in the wk21 GCF WI-10 and WI-12 ATS		5.5.0	5.6.0	R5s060168
RP-33	RP-060569	1791		Summary of regression errors in the wk21 HSD_ENH ATS		5.5.0	5.6.0	R5s060165
RP-33	RP-060569	1792	-	8.2.6.39b	F	5.5.0	5.6.0	R5s060164
RP-33	RP-060557	1793		Correction of GCF WI-12 and 10 NAS Test cases	F	5.5.0	5.6.0	R5s060163

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-33	RP-060554	1794	-	Addition of GCF WI-012 MAC test case 7.1.3.2 to MAC ATS V5.4.0	В	5.5.0	5.6.0	R5s060161
RP-33	RP-060557	1795	-	Correction of GCF WI-10 IR_U Testcase 8.3.11.4	F	5.5.0	5.6.0	R5s060158
RP-33	RP-060569	1796	-	Addition of GCF WI14/3 test case 14.6.6 to HSD_ENH ATS V5.4.0	В	5.5.0	5.6.0	R5s060159
RP-33	RP-060569	1797	-	Correction of GCF WI-14 HSDPA Testcase 8.3.11.10	F	5.5.0	5.6.0	R5s060156
RP-33	RP-060557	1798	-	Correction of GCF WI-12 RRC Testcase 8.3.1.30	F	5.5.0	5.6.0	R5s060157
RP-33	RP-060569	1799	1	Addition of GCF WI14/3 test case 14.6.1a to HSD_ENH ATS V5.4.0	В	5.5.0	5.6.0	R5s060154
RP-33	RP-060557	1800	-	Summary of regression errors in the wk18 GCF WI-10 and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060148
RP-33	RP-060557	1801	-	Correction to common teststeps ts_RRC_ReceiveUE_CapabilityInfo and	F	5.5.0	5.6.0	R5s060146
RP-33	RP-060557	1802	-	ts_Check_UE_Capability Correction to the constraint cbr_108_RRC_SecModeCmpl in approved teststep ts_RRC_Security	F	5.5.0	5.6.0	R5s060147
RP-33	RP-060569	1803	-	Correction to test step ts_RRC_ConnRel_AfterSwitchOff_r5	F	5.5.0	5.6.0	R5s060153
RP-33	RP-060569	1804	-	Correction of GCF WI-14 HSDPA MAC test case 7.1.5.4	F	5.5.0	5.6.0	R5s060149
RP-33	RP-060557	1805	-	Proposed enhancement for calculation of DPCH Frame Offset	F	5.5.0	5.6.0	R5s060150
RP-33	RP-060557	1806	-	Correction of PLMN presentation in test step ts_MMI_PLMN_SelPerf	F	5.5.0	5.6.0	R5s060152
RP-33	RP-060557	1807	<u> </u>	Correction to InterRAT Idle Mode frequency lists	F	5.5.0	5.6.0	R5s060151
RP-33	RP-060557	1808	<u> </u>	Correction to GCF WI-10 Idle Mode test case 6.1.2.3	F	5.5.0	5.6.0	R5s060144
RP-33	RP-060557	1809	<u> </u>	Correction of integrity error in TC 8.1.7.1d	F	5.5.0	5.6.0	R5s060145
RP-33	RP-060569	1810	Ε	TTCN correction to MAC-hs testcase 7.1.5.6	F	5.5.0	5.6.0	R5s060143
RP-33	RP-060558	1811	- -		F	5.5.0	5.6.0	R5s060143
RP-33	RP-060558	1812	-	Summary of regression errors in wk29 IRAT ATSs. Correction to Approved GCF WI-10 NAS test case 12.4.1.1a	F	5.5.0	5.6.0	R5s060236
RP-33	RP-060558	1813	<u> </u>	Summary of Regression Errors in RRC wk34 ATS	F	5.5.0	5.6.0	R5s060248
RP-33	RP-060558	1814	1-	Summary of Regression Errors in NAS wk34 ATS	F	5.5.0	5.6.0	R5s060249
RP-33	RP-060558	1815	l <u>-</u>	Summary of Regression Errors in SMS wk34 ATS	F	5.5.0	5.6.0	R5s060250
RP-33	RP-060559	1816	-	Summary of Regression Errors in HSD_ENH wk34 ATS	F	5.5.0	5.6.0	R5s060256
RP-33	RP-060558	1817	[-	Correction to GCF WI-12 IR_U Test Case 8.4.1.48	F	5.5.0	5.6.0	R5s060253
RP-33	RP-060558	1818	-	Summary of regression errors in wk34 GCF WI-10 and GCF WI-12 ATS	F	5.5.0	5.6.0	R5s060255
RP-33	RP-060558	1819	1-	Correction to UE capability constraints	F	5.5.0	5.6.0	R5s060254
RP-33	RP-060558	1820	-	Addition of GCF WI-017 test case 8.3.7.17 to IR_U_r3 ATS V5.5.0.	В	5.5.0	5.6.0	R5s060234
RP-33	RP-060564	1821	Ĭ-	CR to 34.123-3: ASP changes for EDCH test	F	5.5.0	5.6.0	R5-062325
RP-33	RP-060551	1822	-	New ASP and updated ASP to resolve SRB3 UL ciphering	F	5.5.0	5.6.0	R5-062534
RP-33	RP-060553	1823	-	Production of pointer version 5.6.0 of TS 34.123-3 with no technical contents	F	5.5.0	5.6.0	R5-062535
RP-33	RP-060560	1824	İ-	Upgrade TS 34.123-3 to version 6.0.0	F	5.5.0	6.0.0	R5-062536
RP-33	RP-060551	1825	l-	CR to 34.123-3: Update TSO and PIXIT	F	5.5.0	5.6.0	R5-062395
RP-33	RP-060551	1826	-	CR to 34.123-3: SFN offset issue in the CFN timing- maintained test	F	5.5.0	5.6.0	R5-062046
RP-33	RP-060560	1827	-	CR to 34.123-3: GERAN additional bands for interRAT test	F	5.5.0	5.6.0	R5-062537
RP-34	RP-060744	1828	-	CR to 34.123-3, Corrections of ASP and EDCH configurations	F	6.0.0	6.1.0	R5-063063
RP-34	RP-060734	1829	_	CR to 34.123-3: New PIXIT for band VI test	F	6.0.0	6.1.0	R5-063375
RP-34	RP-060734	1830	-	CR to 34.123-3: New annex guidance to TC executions	F	6.0.0	6.1.0	R5-063546
RP-34	RP-060741		-	CR to 34.123-3: Add new verified and e-mail agreed				
		1831		TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	6.0.0	6.1.0	-
RP-34	RP-060745	1832	_	Addition of E-DCH MAC test case 7.1.6.2.3 to HSU_ENH ATS v5.5.0	В	6.0.0	6.1.0	R5s060311
RP-34	RP-060745	1833	-	Addition of EDCH test case 8.2.6.50 to HSU ATS v5.5.0	В	6.0.0	6.1.0	R5s060304
RP-34	RP-060745	1834	-	Addition of E-DCH RRC test case 8.3.1.41 to HSU_ENH ATS v5.5.0	В	6.0.0	6.1.0	R5s060286
RP-34	RP-060745	1835	-	Addition of E-DCH InterRAT test case 8.3.11.14 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060280
RP-34	RP-060745		-	Addition of GCF WI-25 E-DCH test case 14.7.1 to				
<u> </u>		1836		HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060259

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-34	RP-060745	1837	-	Addition of GCF WI-25 E-DCH test case 8.2.1.35 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060270
RP-34	RP-060736	1838	-	Addition of GCF WI10 RRC test case 8.2.6.38 to RRC ATS v6.0.0	В	6.0.0	6.1.0	R5s060295
RP-34	RP-060736	1839	-	Addition of GCF WI10 RRC test case 8.4.1.28 to RRC ATS v6.0.0	В	6.0.0	6.1.0	R5s060265
RP-34	RP-060736	1840	-	Addition of GCF WI10 RRC test case 6.1.2.4 to RRC ATS v6.0.0	В	6.0.0	6.1.0	R5s060257
RP-34	RP-060738	1841	-	Addition of HSDPA RAB test case 14.6.7 to HSD_ENH ATS v5.5.0	В	6.0.0	6.1.0	R5s060313
RP-34	RP-060740	1842	-	Addition of DSAC test case 8.1.2.16 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060288
RP-34	RP-060740	1843	-	Addition of DSAC test case 12.4.2.12 to HSU_ENH_r6 ATS	В	6.0.0	6.1.0	R5s060283
RP-34	RP-060740	1844	-	Addition of DSAC test case 12.4.2.11 to HSU_ENH_r6 ATS.	В	6.0.0	6.1.0	R5s060281
RP-34	RP-060740	1845	-	Addition of GCF WI-24 DSAC test case 12.9.15 to HSU ATS v6.0.0	В	6.0.0	6.1.0	R5s060263
RP-34	RP-060740	1846	-	Addition of DSAC test case 9.4.3.6 to HSU_ENH_ATS V5.5.0	В	6.0.0	6.1.0	R5s060251
RP-34	RP-060740	1847	-	Addition of DSAC test case 12.2.1.12 to HSU_ENH_ATS V6.0.0	В	6.0.0	6.1.0	R5s060246
RP-34	RP-060740	1848	-	Addition of DSAC test case 9.5.9 to HSU_ENH_ATS V6.0.0	В	6.0.0	6.1.0	R5s060244
RP-34 RP-34	RP-060736 RP-060736	1849	-	Correction to GCF WI-10 IR-U Test Case 8.3.7.1 Summary of regression errors in wk38 GCF WI-10	F	6.0.0	6.1.0	R5s060338
RP-34	RP-060736	1850 1851		and WI-12 ATS Correction to SMS testcase 16.2.1	F F	6.0.0	6.1.0 6.1.0	R5s060337 R5s060320
RP-34	RP-060736	1852	-	Correction to SMS testcase 16.2.1 Correction to the NAS Test Case 12.9.12 and 12.9.13	-	6.0.0	6.1.0	R5s060320
RP-34	RP-060736		-	Corrections to GCF WI-10 Test Cases 8.1.10.1 and				
RP-34	RP-060736	1853 1854		7.1.1.8 Introduction of Band 6 to test cases	F F	6.0.0	6.1.0 6.1.0	R5s060332 R5s060324
RP-34	RP-060736	1855	<u>-</u>	Summary of Regression Errors in RLC wk38 ATS	F	6.0.0	6.1.0	R5s060324
RP-34	RP-060736	1000	-	Corrections to GCF WI-12 RRC Test Cases 8.2.6.39	1	0.0.0	0.1.0	133000331
		1856		& 8.2.6.44	F	6.0.0	6.1.0	R5s060330
RP-34	RP-060736	1857	-	Correction to GCF WI-10 RRC Test Case 6.1.1.7	F	6.0.0	6.1.0	R5s060325
RP-34	RP-060736	1858	-	Correction to approved GCF WI-12/1 RAB test case 14.2.58a	F	6.0.0	6.1.0	R5s060321
RP-34	RP-060736	1859	-	Summary of regression errors in the wk38 InterRAT ATSs.	F	6.0.0	6.1.0	R5s060315
RP-34	RP-060736	1860	-	Summary of regression errors in wk38 GCF WI-10 and GCF WI-12 ATS	F	6.0.0	6.1.0	R5s060309
RP-34	RP-060736	1861	-	Correction to the RRC test case 8.4.1.8	F	6.0.0	6.1.0	R5s060307
RP-34	RP-060736	1862	-	Corrections to GCF WI-10 RAB testcases 14.4.2.3 and 14.4.2a.3	F	6.0.0	6.1.0	R5s060308
RP-34	RP-060736	1863	-	Correction to IR_U testcase 8.4.1.48	F	6.0.0	6.1.0	R5s060302
RP-34	RP-060736	1864	-	Correction of GCF WI-10 RRC testcase 8.1.10.1	F	6.0.0	6.1.0	R5s060303
RP-34 RP-34	RP-060736	1865	-	Correction to GCF WI-12 RRC Test Case 8.3.1.30	F	6.0.0	6.1.0	R5s060306
RP-34	RP-060737 RP-060737	1866 1867	-	Correction to IR_U testcases for XID negotiation Correction to RRC testcase 8.2.2.9	F F	6.0.0 6.0.0	6.1.0 6.1.0	R5s060298 R5s060299
RP-34	RP-060737	1868	-	Correction to RRC testcase 8.3.1.30	F	6.0.0	6.1.0	R5s060300
RP-34	RP-060737	1869	-	iWD_wk36 ATS Regression Errors Corrections	F	6.0.0	6.1.0	R5s060294
RP-34	RP-060737	1870	-	Summary of regression errors in the wk36 IR_U_r3 ATS.	F	6.0.0	6.1.0	R5s060290
RP-34	RP-060737	1871	-	TTCN Correction to GCF WI-10 RRC Test Cases 8.1.1.4, 8.1.1.5 and 8.1.1.6	F	6.0.0	6.1.0	R5s060292
RP-34	RP-060737	1872	-	TTCN correction to GCF WI-10 RRC Test Cases 8.1.2.2 and 8.1.2.9	F	6.0.0	6.1.0	R5s060293
RP-34	RP-060737	1873	-	Correction to WI 10/2 RRC testcase 8.4.1.8	F	6.0.0	6.1.0	R5s060285
RP-34	RP-060737	1874	-	Summary of regression errors in wk36 GCF WI-10 and GCF WI-12 ATS	F	6.0.0	6.1.0	R5s060274
RP-34	RP-060737	1875	-	Summary of Regression Errors in wk36 ATS	F	6.0.0	6.1.0	R5s060274
RP-34	RP-060737	1876	-	Correction to approved GCF WI-010 Test Case 16.2.1	F	6.0.0	6.1.0	R5s060278
RP-34	RP-060737	1877	-	Correction to GCF WI-12 RRC Test Case 8.2.2.43	F	6.0.0	6.1.0	R5s060279
RP-34	RP-060737	1878	-	Correction to testcase 14.2.58	F	6.0.0	6.1.0	R5s060267
RP-34	RP-060737		-	TTCN CR to extend Guard Timer for GCF WI-10 and	_			
DD 6 :	DD 000777	1879		12 RRC & RAB Test Cases	F	6.0.0	6.1.0	R5s060261
RP-34	RP-060738 RP-060738	1880		Correction to testcase 8.2.6.48 Correction of PDP_Context_Status mandatory IE for	F	6.0.0	6.1.0	R5s060335
			1-	ICOHECTION OF PUR CONTEXT STATUS MANGATORY IE FOR	ì	i	i	Ì
RP-34	141 -000730	1881		Rel 5 and above	F	6.0.0	6.1.0	R5s060333

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-34	RP-060738	1883	-	Corrections to GCF WI 14/1 test case 8.2.3.35	F	6.0.0	6.1.0	R5s060310
RP-34	RP-060738		-	Correction to GCF WI 14 RRC testcases in Non				
		1884		Ciphering path.	F	6.0.0	6.1.0	R5s060301
RP-34	RP-060738	1885	-	Correction to HSDPA MRAT testcase 8.3.7.14	F	6.0.0	6.1.0	R5s060297
RP-34	RP-060738	4000	-	Summary of regression errors in wk36 HSD_ENH	_	0.00	0.4.0	D5-000077
RP-34	RP-060738	1886	_	ATS TTCN CR to extend Guard Timer for GCF WI-14 RAB	F	6.0.0	6.1.0	R5s060277
KF-34	KF-000736	1887	[Test Case	F	6.0.0	6.1.0	R5s060262
RP-34	RP-060745	1001	-	Addition of E-DCH MAC test case 7.1.6.2.7 to		0.0.0	0	1.00000202
		1888		HSU_ENH ATS v6.0.0	В	6.0.0	6.1.0	R5s060343
RP-34	RP-060745		-	Addition of E-DCH MAC test case 7.1.6.2.4 to				
	DD 000-0-	1889		HSU_ENH ATS v6.0.0	В	6.0.0	6.1.0	R5s060347
RP-34	RP-060737	1890	-	Correction to approved GCF WI-10/3 RRC test case 6.1.2.6	F	6.0.0	6.1.0	R5s060339
RP-34	RP-060737	1891	_	Correction to GCF WI-10 Idle Mode Test Case 6.1.2.8	•	6.0.0	6.1.0	R5s060339
RP-34	RP-060737	1892	-	Correction to GCF WI-10 Idle Mode Fest Case 0.1.2.0	F	6.0.0	6.1.0	R5s060342
RP-34	RP-060737	1002	-	Corrections of approved GCF WI-12 test case	•	0.0.0	0.1.0	1100000042
• .		1896		8.2.2.43.	F	6.0.0	6.1.0	R5s060317
RP-34	RP-060737	1897	-	Correction to GCF WI-10 RRC Test Case 8.4.1.8	F	6.0.0	6.1.0	R5s060322
RP-35	RP-070099	1898		Addition of GCF WI-25 HSUPA MAC Test Case	В	6.1.0	6.2.0	R5s060401
				7.1.6.4.3				
RP-35	RP-070099	1899		Addition of GCF WI-25 RAB Test Case 14.7.4	В	6.1.0	6.2.0	R5s060399
RP-35	RP-070099	1900		Addition of GCF WI-25 HSUPA Test Case 7.1.6.2.10	В	6.1.0	6.2.0	R5s060378
RP-35	RP-070099	1901		Addition of GCF WI-25 HSUPA MAC Test Case 7.1.6.4.2	В	6.1.0	6.2.0	R5s060395
RP-35	RP-070099	1902		Addition of GCF WI-25 HSUPA Test Case 8.2.2.45	В	6.1.0	6.2.0	R5s060384
RP-35	RP-070099	1902		Addition of GCF WI-25 HSUPA MAC Test Case	В	6.1.0	6.2.0	R5s060380
141 00	111 070000	1000		7.1.6.1.3		0.1.0	0.2.0	110000000
RP-35	RP-070099	1904		Addition of GCF WI-25 HSUPA MAC Test Case 7.1.6.2.8	В	6.1.0	6.2.0	R5s060376
RP-35	RP-070099	1905		Addition of GCF WI-25 HSUPA Test Case 7.1.6.2.9	В	6.1.0	6.2.0	R5s060381
RP-35	RP-070106	1906		Addition of GCF WI-10 Idle mode test case 6.1.2.9a	В	6.1.0	6.2.0	R5s070027
RP-35	RP-070106	1907		Addition of GCF WI-10 Idle mode test case 6.1.2.9b	В	6.1.0	6.2.0	R5s070029
RP-35	RP-070110	1908		Addition of WB-AMR RAB test case 14.2.4b to	В	6.1.0	6.2.0	R5s070033
				HSD_ENH_r5 ATS V6.1.0				
RP-35	RP-070099	1909		Addition of E-DCH RAB test case 14.7.5 to	В	6.1.0	6.2.0	R5s060328
DD 05	RP-070099	1910		HSU_ENH_r6 ATS V6.0.0	_	6.1.0	0.00	DF-00000
RP-35	RP-070099	1910		Addition of E-DCH RAB test case 14.7.2 to HSU ENH r6 ATS V6.0.0	В	6.1.0	6.2.0	R5s060326
RP-35	RP-070099	1911		Addition of E-DCH MAC test case 7.1.6.3.1 to	В	6.1.0	6.2.0	R5s060364
141 00	111 070000	1011		HSU_ENH_r6 ATS V6.0.0		0.1.0	0.2.0	1100000001
RP-35	RP-070099	1912		Addition of E-DCH MAC test case 7.1.6.1.2 to	В	6.1.0	6.2.0	R5s060362
				HSU_ENH_r6 ATS V6.0.0				
RP-35	RP-070099	1913		Addition of E-DCH MAC test case 7.1.6.1.1 to	В	6.1.0	6.2.0	R5s060360
	DD 070000			HSU_ENH_r6 ATS V6.0.0				D= 000 (0)
RP-35	RP-070099	1914		Correction to GCF WI-025 test case 8.3.1.41	F	6.1.0	6.2.0	R5s060404
RP-35 RP-35	RP-070099 RP-070106	1915 1916		Correction to GCF WI-25 RAB Test Case 14.7.5	F F	6.1.0 6.1.0	6.2.0	R5s060408 R5s060406
RP-35	RP-070106	1916		Summary of Regression Errors in NAS wk49 ATS Summary of regression errors in wk49 ATS	F	6.1.0	6.2.0 6.2.0	R5s060405
RP-35	RP-070106	1917		Correction to GCF WI-10 SMS test case 16.3	F	6.1.0	6.2.0	R5s070005
RP-35	RP-070106	1919		Correction to GCF WI-10 SMS test case 16.3	F	6.1.0	6.2.0	R5s070006
55	7.0100	.5.5		16.1.2		3. 1.0	0.2.0	. 10007 0000
RP-35	RP-070106	1920		Correction to GCF WI-10 RRC test case 6.1.2.3	F	6.1.0	6.2.0	R5s070007
RP-35	RP-070106	1921		Summary of regression errors in wk49 IRAT ATSs.	F	6.1.0	6.2.0	R5s070004
RP-35	RP-070106	1922		Correction to GCF WI-10 NAS Test Case 12.9.12	F	6.1.0	6.2.0	R5s070001
RP-35	RP-070106	1923		Correction to GCF WI-10 RRC Test Case 8.4.1.25	F	6.1.0	6.2.0	R5s070002
DD 05	DD 070400	4001		and 8.4.1.48	_	0.4.0	0.00	DE-070000
RP-35	RP-070106	1924		Correction to GCF WI-10 RAB Test Case 14.2.58	F	6.1.0	6.2.0	R5s070003
RP-35	RP-070099	1925		Correction to GCF WI-025 test case 14.7.4	F	6.1.0	6.2.0	R5s070019
RP-35 RP-35	RP-070106 RP-070106	1926 1927	-	Correction to GCF WI-10 RRC Test Case 8.4.1.2 Correction to GCF WI-10 IR-U Test Case 12.8	F F	6.1.0 6.1.0	6.2.0 6.2.0	R5s070026 R5s070025
RP-35	RP-070106	1927		Correction to GCF WI-10 IR-0 Test Case 12.8 Corrections to GCF WI-17 DTM test case 8.3.7.17	F	6.1.0	6.2.0	R5s070023
RP-35	RP-070106	1929		Correction to approved test case 8.4.1.8	F	6.1.0	6.2.0	R5s070020
RP-35	RP-070106	1930		Correction to approved test case 8.2.6.38	F	6.1.0	6.2.0	R5s070021
RP-35	RP-070106	1931		Correction to the NAS test case 9.2.2	F.	6.1.0	6.2.0	R5s070011
RP-35	RP-070106	1932		Correction to NAS test cases 12.4.1.1b and 12.9.9	F.	6.1.0	6.2.0	R5s070012
RP-35	RP-070106	1933		Correction to RRC testcase 8.4.1.2	F	6.1.0	6.2.0	R5s070013
RP-35	RP-070106	1934			F	6.1.0	6.2.0	R5s070014
		1		12.4.2.12				
RP-35	RP-070107	1935		Correction to AGPS ASP	F	6.1.0	6.2.0	R5s070015
DD 05	DD 070407	4000	ļ	Retri_GPS_AssistanceData_CNF	_	0.4.0	0.00	DE-070017
RP-35	RP-070107	1936	<u> </u>	Correction to the RRC testcase 8.3.4.8	F	6.1.0	6.2.0	R5s070017

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-35	RP-070107	1937		Summary of Regression Errors in wk49 ATSs	F	6.1.0	6.2.0	R5s070018
RP-35	RP-070107	1938		Introduction of Band 8	F	6.1.0	6.2.0	R5s070008
RP-35	RP-070107	1939		Correction of CC procedure for multimedia calls	F	6.1.0	6.2.0	R5s070010
RP-35	RP-070110	1940		Correction to RRC TC 8.3.4.9 to avoid possible radio link failure.	F	6.1.0	6.2.0	R5s070022
RP-35	RP-070110	1941		Correction to GCF WI-14 HSDPA Test Case 14.6.4a	F	6.1.0	6.2.0	R5s070024
RP-35	RP-070107	1942		Step enhancement for the introduction of InterBand Test cases	F	6.1.0	6.2.0	R5s070031
RP-35	RP-070107	1943		Correction to GCF WI-10 RRC Test Case 8.3.1.5	F	6.1.0	6.2.0	R5s070039
RP-35	RP-070107	1944		Correction to Inter-RAT testcase 8.3.7.3	F	6.1.0	6.2.0	R5s070038
RP-35 RP-35	RP-070110 RP-070110	1945 1946		Correction to GCF WI-13 Test Case 8.3.1.40	F	6.1.0 6.1.0	6.2.0	R5s070040
RP-35	RP-070110	1946		Correction to Idle mode testcase 6.1.2.10 Correction to DSAC RRC testcase 8.1.2.16	F	6.1.0	6.2.0	R5s070036 R5s070037
RP-35	RP-070110	1948		Correction to test case 8.2.6.39b & 8.3.4.9	F	6.1.0	6.2.0	R5s070037
RP-35	RP-070107	1949		Correction to the NAS Test Case 12.3.2.1	F	6.1.0	6.2.0	R5s060352
RP-35	RP-070107	1950		Correction to GCF WI-012 test case 12.3.2.7	F	6.1.0	6.2.0	R5s060351
RP-35	RP-070107	1951		Correction to approved GCF WI-10 test case 8.3.7.1.	F	6.1.0	6.2.0	R5s060345
RP-35	RP-070107	1952		Correction of approved GCF WI-010 test case 8.1.7.1c	F	6.1.0	6.2.0	R5s060316
RP-35	RP-070107	1953		Correction to GCF WI-12 MAC Test Case 7.1.3.2	F	6.1.0	6.2.0	R5s060354
RP-35	RP-070107	1954		Correction to QOS checking for UE not support AT commands to start MO PS call	F	6.1.0	6.2.0	R5s060353
RP-35	RP-070112	1955		Correction to GCF WI-24 DSAC Test Case 12.4.2.11	F	6.1.0	6.2.0	R5s060355
RP-35	RP-070107	1956		Summary of regression errors in wk43 ATS	F	6.1.0	6.2.0	R5s060341
RP-35	RP-070107	1957		Correction to GCF WI 10/2 RRC testcase 8.4.1.8	F	6.1.0	6.2.0	R5s060389
RP-35	RP-070107	1958		TTCN correction to GMM Test Case 12.4.1.4b	F	6.1.0	6.2.0	R5s060357
RP-35	RP-070107	1959		Summary of regression errors in wk47 IRAT ATSs.	F	6.1.0	6.2.0	R5s060372
RP-35	RP-070107	1960		Change of PDU type definition REGISTER used in MM test cases	F	6.1.0	6.2.0	R5s060388
RP-35	RP-070107	1961		Correction to GCF WI-10 RRC Test Case 8.4.1.25	F	6.1.0	6.2.0	R5s060374
RP-35	RP-070108	1962		Summary of Regression Errors in NAS wk47 ATS – Batch2	F	6.1.0	6.2.0	R5s060371
RP-35 RP-35	RP-070108	1963		Summary of Regression Errors in NAS wk47 ATS	F F	6.1.0	6.2.0	R5s060369
RP-35	RP-070108 RP-070108	1964 1965		Summary of Regression Errors in RAB wk47 ATS Correction to GCF WI-10 RRC Test Case 8.1.2.4	F	6.1.0 6.1.0	6.2.0 6.2.0	R5s060370 R5s060367
RP-35	RP-070108	1966		Correction to GCF WI-10 RRC Test Case 6.1.2.1	F	6.1.0	6.2.0	R5s060366
RP-35	RP-070110	1967		TTCN correction to GCF WI-014 RRC HSDPA Test Case 8.3.1.35	F	6.1.0	6.2.0	R5s060359
RP-35	RP-070110	1968		Summary of Regression Errors in HSDPA wk47 ATS	F	6.1.0	6.2.0	R5s060368
RP-35	RP-070099	1969		Corrections to E-DCH test case 14.7.1	F	6.1.0	6.2.0	R5s060403
RP-35	RP-070099	1970		Corrections to E-DCH test case 7.1.6.2.3 and 7.1.6.2.7	F	6.1.0	6.2.0	R5s060394
RP-35	RP-070099	1971		Summary of Regression Errors in HSU wk47 ATS	F	6.1.0	6.2.0	R5s060375
RP-35	RP-070108	1972		Correction to approved test case 8.4.1.2, 8.4.1.6, 8.4.1.24	F	6.1.0	6.2.0	R5s060391
RP-35	RP-070110	1973		Summary of regression errors in wk47 ATS	F	6.1.0	6.2.0	R5s060393
RP-35	RP-070110	1974		Correction to approved GCF WI-014 test case 8.2.6.48	F	6.1.0	6.2.0	R5s060392
RP-35	RP-070108	1975		Correction to RRC constraint 'cr_RRC_RrcConnSetupCmplRadioCap_BandList2' for Band VIII	F	6.1.0	6.2.0	R5s070035
RP-35	RP-070108	1976		Addition of GCF WI-010 P4 test case 8.2.6.37 to RRC ATS V6.1.0		6.1.0	6.2.0	R5s070050
RP-35	RP-070108	1977		Correction to GCF WI-10 NAS test cases using SETUP ul constraints	F	6.1.0	6.2.0	R5s070043
RP-35	RP-070108	1978		Correction to GCF WI-10 NAS test cases 9.1 and 12.9.7c	F	6.1.0	6.2.0	R5s070044
RP-35	RP-070108	1979		Correction to GCF WI-10 NAS test case 9.4.2.2 Procedure 2	F	6.1.0	6.2.0	R5s070045
RP-35	RP-070100	1981		CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	6.1.0	6.2.0	-
RP-35	RP-070108	1982		Correction to the MAC suite for Band VI	F	6.1.0	6.2.0	R5s070052
RP-35 RP-35	RP-070108 RP-070108	1983 1984		Summary of regression errors in 07wk03 ATSs Cell setup issue in 15 Idle Mode, RRC and NAS test	F F	6.1.0 6.1.0	6.2.0 6.2.0	R5s070053 R5s070054
DD 05	DD 070400	1005		Cases	_	640	600	DE-070050
RP-35 RP-35	RP-070108 RP-070108	1985 1986		Correction to RRC testcase 6.1.2.6 Correction to constraint	F	6.1.0 6.1.0	6.2.0	R5s070059 R5s070061
RP-35	RP-070108	1986		crection to constraint cr_UE_CapabilityInfoAM_BandList2 for Band VIII Corrections to wk03 AGPS ATS	F	6.1.0	6.2.0	R5s070061
RP-35	RP-070108	1988		Recovering LAI checking in RRC CONNECTION	F	6.1.0	6.2.0	R5s070032
00	070100	1.000		REQUEST in 8.1.2.x. test cases		30	5.2.0	. 10001 0001

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-35	RP-070108	1989		Correction to RRC testcase 8.4.1.2	F	6.1.0	6.2.0	R5s070056
RP-35	RP-070108	1990		Cleaning of UE capability check procedure and band PICS	F	6.1.0	6.2.0	R5s070042
RP-35	RP-070109	1991		Correction to remove dependency on px_CipheringOnOff in L2 test cases	F	6.1.0	6.2.0	R5s070055
RP-35	RP-070110	1992		Correction to HSDPA testcase 8.2.4.36	F	6.1.0	6.2.0	R5s070060
RP-35	RP-070099	1993		Addition of GCF WI 25 RRC test case 8.2.3.36 to HSU_ENH_r6 ATS V6.1.0.	В	6.1.0	6.2.0	R5s070062
RP-35	RP-070099	1994		Addition of GCF WI-25 EDCH RRC test case 8.2.2.46		6.1.0	6.2.0	R5s070064
RP-35	RP-070109	1995		Correction to RLC Test case 7.2.3.35	F	6.1.0	6.2.0	R5s070058
RP-35	RP-070098	1996		Activation time in EDCH ASP and ASP order	F	6.1.0	6.2.0	R5-070033
RP-35	RP-070087	1997		MBMS test model and ASP	F	6.1.0	6.2.0	R5-070460
RP-35	RP-070103	1998		Correction of Band VIII test and Max. number of Almanac data	F	6.1.0	6.2.0	R5-070400
RP-35	RP-070105	1999		Documentation of a test configuration and other corrections	F	6.1.0	6.2.0	R5-070401
RP-35	RP-070103	2000		Corrections to AGPS asn.1 module	F	6.1.0	6.2.0	R5-070091
RP-36	RP-070359	2001		Addition of GCF WI 25 test case 8.3.4.10 to HSU_ENH_r6 ATS V6.1.0.	В	6.2.0	6.3.0	R5s070047
RP-36	RP-070359	2002		Addition of RRC test case 8.2.6.54 to HSD_ENH_r5 ATS V6.1.0	В	6.2.0	6.3.0	R5s070112
RP-36	RP-070359	2003		Addition of GCF WI-25 EDCH test case 8.2.2.48	В	6.2.0	6.3.0	R5s070079
RP-36	RP-070359	2004		Addition of GCF WI-25 EDCH test case 8.2.6.51	В	6.2.0	6.3.0	R5s070140
RP-36	RP-070359	2005		v6.1.0	В	6.2.0	6.3.0	R5s070103
RP-36	RP-070347	2006		Addition of GCF WI-047 test case 8.4.1.25A to RRC ATS.	В	6.2.0	6.3.0	R5s070126
RP-36	RP-070347	2007		Addition of GCF WI-047 test case 8.4.1.2B to RRC ATS.	В	6.2.0	6.3.0	R5s070122
RP-36	RP-070347	2008		ATS.	В	6.2.0	6.3.0	R5s070120
RP-36	RP-070347	2009		Addition of GCF WI-047 test case 8.2.1.24a to RRC ATS.	В	6.2.0	6.3.0	R5s070118
RP-36	RP-070347	2010		Addition of GCF WI-047 test case 6.1.2.10a to HSDPA ATS.	В	6.2.0	6.3.0	R5s070085
RP-36	RP-070347	2011		Addition of GCF WI-047 test case 8.1.2.10a to RRC ATS.	В	6.2.0	6.3.0	R5s070083
RP-36	RP-070347	2012		Addition of GCF WI-047 test case 6.1.2.1a to RRC ATS.	В	6.2.0	6.3.0	R5s070081
RP-36	RP-070347	2013		Addition of GCF WI10 RRC test case 8.4.1.42 to RRC ATS v6.1.0		6.2.0	6.3.0	R5s070109
RP-36	RP-070352	2014		Addition of WB-AMR RAB test case 14.6.8 to HSD_ENH_r5 ATS V6.1.0	В	6.2.0	6.3.0	R5s070072
RP-36	RP-070352	2015		Addition of WB-AMR RAB test case 14.2.62 to HSD_ENH_r5 ATS V6.1.0	В	6.2.0	6.3.0	R5s070077
RP-36	RP-070359	2016		Summary of regression errors in 07wk08 HSUPA ATS	F	6.2.0	6.3.0	R5s070069
RP-36	RP-070359	2017		Correction to E-DCH testcases using rv0	F	6.2.0	6.3.0	R5s070071
RP-36 RP-36	RP-070359 RP-070359	2018		Correction to approved 8.3.1.41 test case Correction to test steps ts_InitVariablesHSU & ts_SS_ReIDPCH_E_HS	F F	6.2.0 6.2.0	6.3.0 6.3.0	R5s070130 R5s070098
RP-36	RP-070359	2020		Correction to E-DCH testcases 7.1.6.4.3	F	6.2.0	6.3.0	R5s070095
RP-36	RP-070359	2021		Correction to GCF WI-25 test case 7.1.6.2.2	F	6.2.0	6.3.0	R5s070138
RP-36	RP-070359	2022		Correction to E-DCH testcases 8.2.2.46 & 8.2.3.36	F	6.2.0	6.3.0	R5s070115
RP-36	RP-070347	2023		Correction to GCF WI-10 NAS Test Case 12.4.1.4a	F	6.2.0	6.3.0	R5s070128
RP-36	RP-070347	2024		Correction to GCF WI-10 Test Cases 9.4.5.4.1, 6.1.2.9a and 6.1.2.9b	F	6.2.0	6.3.0	R5s070129
RP-36	RP-070347	2025		Summary of regression errors in wk11 ATS	F	6.2.0	6.3.0	R5s070111
RP-36	RP-070347	2026		Summary of regression errors in wk08 ATS	F	6.2.0	6.3.0	R5s070090
RP-36	RP-070347	2027		Correction to GCF WI-10 RRC Test Case 12.9.6 , 12.4.2.4 , 12.2.1.4.1	F	6.2.0	6.3.0	R5s070092
RP-36	RP-070347	2028		Summary of Regression Errors in wk08 ATSs	F	6.2.0	6.3.0	R5s070087
RP-36	RP-070347	2029		Improvement on Guard Timer Timeout Handling	F	6.2.0	6.3.0	R5s070093
RP-36	RP-070347	2030		Summary of Regression errors in wk 11 IR_U ATS	F	6.2.0	6.3.0	R5s070134
RP-36	RP-070347	2031		Correction to GCF WI-10 NAS test case 9.4.2.2 Procedure 2	F	6.2.0	6.3.0	R5s070100
RP-36	RP-070347	2032		Correction to RRC testcase 8.4.1.8 & 8.4.1.28	F	6.2.0	6.3.0	R5s070097
RP-36	RP-070348	2033		Correction to RRC testcase 8.4.1.2 & 8.4.1.6	F	6.2.0	6.3.0	R5s070096
RP-36	RP-070348	2034		Removal of pc_MS_ClsmkFreqCap	F	6.2.0	6.3.0	R5s070094
RP-36 RP-36	RP-070348 RP-070348	2035		Summary of regression errors in 07wk03 IRAT ATSs Alignment of TTCN implementation of default radio	F F	6.2.0 6.2.0	6.3.0 6.3.0	R5s070049 R5s070135
1117-00	1070340	2030		configurations		0.2.0	0.3.0	1709010199

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-36	RP-070348	2037		Corrections to AGPS test cases 17.2.x (GCF WI-015)	F	6.2.0	6.3.0	R5s070075
RP-36	RP-070348	2038		Correction to RAB Test cases 14.4.2.1 and 14.4.2a.1	F	6.2.0	6.3.0	R5s070099
RP-36	RP-070348	2039		Correction to MRAT Idle mode testcases 6.2.1.1 and 6.2.1.6	F	6.2.0	6.3.0	R5s070066
RP-36	RP-070348	2040		Further correction to QOS checking for UE not support AT commands to start MO PS call	F	6.2.0	6.3.0	R5s070139
RP-36	RP-070348	2041		Rel-6 baseline upgrade	F	6.2.0	6.3.0	R5s070132
RP-36	RP-070348	2042		Summary of regression errors in wk11 ATS	F	6.2.0	6.3.0	R5s070142
RP-36	RP-070348	2043		Summary of regression errors in the wk08 HSDPA InterRAT ATS	F	6.2.0	6.3.0	R5s070067
RP-36	RP-070348	2044		Correction to GCF WI-10 Idle Mode test case 6.1.1.7	F	6.2.0	6.3.0	R5s070114
RP-36	RP-070348	2045		Correction to GCF WI-10 NAS Test Case 12.2.1.6 Proc 1 and 2	F	6.2.0	6.3.0	R5s070107
RP-36	RP-070348	2046		Correction to GCF WI-10 SMS Test Case 16.2.1	F	6.2.0	6.3.0	R5s070117
RP-36	RP-070348	2047			F	6.2.0	6.3.0	R5s070074
RP-36	RP-070352	2048		Correction to UM constraints used with type CRLC_Config_Req	F	6.2.0	6.3.0	R5s070070
RP-36	RP-070352	2049		Summary of regression errors in wk-11 MAC ATS	F	6.2.0	6.3.0	R5s070131
RP-36	RP-070352	2050		Correction to approved 8.2.6.39a and 8.2.6.39b test cases	F	6.2.0	6.3.0	R5s070076
RP-36	RP-070352	2051		Correction to WB-AMR RAB test cases 14.2.62,14.2.4b and 14.6.8	F	6.2.0	6.3.0	R5s070136
RP-36	RP-070352	2052		Correction of approved GCF WI14 test case 8.3.7.14.	F	6.2.0	6.3.0	R5s070105
RP-36	RP-070352	2053		Corrections to WB-AMR RAB test cases 14.2.4b and 14.2.62	F	6.2.0	6.3.0	R5s070108
RP-36	RP-070348	2054		Correction to GCF WI-10 NAS Test Case 12.8	F	6.2.0	6.3.0	R5s070143
RP-36	RP-070348	2055		Correction to GCF WI-10 RRC test case 8.2.6.8	F	6.2.0	6.3.0	R5s070137
RP-36	RP-070359	2056		Correction to GCF WI-25 test case 7.1.6.2.2	F	6.2.0	6.3.0	R5s070144
RP-36	RP-070348	2057		Correction to GCF WI-10 Test Case 8.2.6.37, 8.2.6.38	F	6.2.0	6.3.0	R5s070145
RP-36	RP-070347	2058		Addition of GCF WI-047 test case 8.4.1.24A to RRC ATS.	В	6.2.0	6.3.0	R5s070124
RP-36	RP-070348	2059		Correction to GCF WI-10 Idle Mode Test Case 6.1.2.6	F	6.2.0	6.3.0	R5s070146
RP-36	RP-070347	2060		Addition of GCF WI-047 test case 8.2.6.37b to RRC ATS	В	6.2.0	6.3.0	R5s070149
RP-36	RP-070359	2061		Correction to approved 7.1.6.4.3 test case	F	6.2.0	6.3.0	R5s070148
RP-36	RP-070352	2062		Corrections to GCF WI-13 and WI-14 WB-AMR Test Cases 14.2.4b,14.2.62 and 14.6.8	F	6.2.0	6.3.0	R5s070147
RP-36	RP-070355	2063		CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	6.2.0	6.3.0	-
RP-36	RP-070358	2064		ASP enhancement for configuration of stand-alone UL-DPCH	F	6.2.0	6.3.0	R5-071030
RP-36	RP-070346	2065			F	6.2.0	6.3.0	R5-071433
RP-36	RP-070354	2066		Editorial corrections in the reference list	F	6.2.0	6.3.0	R5-071445
RP-36	RP-070361	2067		Allocation of channel Id for MBMS test	F	6.2.0	6.3.0	R5-071461
RP-36	RP-070346	2068		Guideline on MCC setting for the Primary band cell	F	6.2.0	6.3.0	R5-071478
RP-37	RP-070605	2069	-	Add a new ASP for MBMS test	F	6.3.0	6.4.0	R5-072050
RP-37	RP-070593	2070	-	RoHC test model and ASP	F	6.3.0	6.4.0	R5-072051
RP-37	RP-070589	2071	-	Addition of ASP for FMO & addition of IE paging cycle splitting		6.3.0	6.4.0	R5-072466
RP-37	RP-070593	2072		Correction to RB identities mapping	F	6.3.0	6.4.0	R5-072337
RP-37	RP-070598	2073	-	CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	6.3.0	6.4.0	-
RP-37	RP-070590	2074	-	TTCN Correction in testcases 8.3.7.16, 8.3.7.17	F	6.3.0	6.4.0	R5s070209
RP-37	RP-070590	2075	-	Correction to GCF WI-10 RRC test case 8.4.1.14	F	6.3.0	6.4.0	R5s070199
RP-37	RP-070595	2076		Corrections to GCF WI-14 HSD Test Cases 8.3.1.40	F	6.3.0	6.4.0	R5s070179
RP-37	RP-070590	2077	<u> </u>	TTCN Correction in testcases 8.1.7.1c, 8.2.6.39, 8.2.6.44, 8.3.1.25, 8.3.1.30	F	6.3.0	6.4.0	R5s070187
RP-37	RP-070590	2078	-	Correction to RRC testcase 8.2.6.37 & 8.2.6.38	F	6.3.0	6.4.0	R5s070198
RP-37	RP-070590	2079	<u> </u>	Correction to IR_U and IR_G test suites to support split paging cycle on CCCH	F	6.3.0	6.4.0	R5s070190
RP-37	RP-070603	2080	_	Correction to GCF WI-25 HSUPA test case 8.2.6.54	F	6.3.0	6.4.0	R5s070173
RP-37	RP-070590	2081	[-	Correction to test step 'ts_AT_CmdCBST' for setting correct speed in case of 3G324M Call.	F	6.3.0	6.4.0	R5s070200
RP-37	RP-070590	2082	-	Correction to the test cases to enable Fach Measurement Occasion in the SS	F	6.3.0	6.4.0	R5s070189
RP-37	RP-070590	2083	-	Corrections to GCF WI-10 Test Cases 8.4.1.14	F	6.3.0	6.4.0	R5s070172
RP-37	RP-070590	2084	-	Corrections to GCF WI-14 RAB Testcase 14.6.3,	F	6.3.0	6.4.0	R5s070195
				14.6.3a, 14.6.4, 14.6.4a, 14.6.7, 14.6.8			1	

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-37	RP-070590	2085	-	Correction to PDU loopback control timer used in RAB test cases	F	6.3.0	6.4.0	R5s070197
RP-37	RP-070590	2086	-	TTCN Correction in SMS testcase 16.1.1	F	6.3.0	6.4.0	R5s070188
RP-37	RP-070606	2087	-	Enhancement for new MBMS cells	F	6.3.0	6.4.0	R5s070184
	RP-070590	2088	-	Correction to GCF WI-15 AGPS test cases (17.2.4.1 to 9)	F	6.3.0	6.4.0	R5s070196
RP-37	RP-070590	2089	-	Corrections to GCF Interband Test Cases 6.1.2.1a and 6.1.2.10a for Band9	F	6.3.0	6.4.0	R5s070191
	RP-070590	2090	-	Corrections to GCF WI-10 Test Cases 8.4.1.8	F	6.3.0	6.4.0	R5s070180
	RP-070590	2091	-	Correction to Interband Test Cases 8.4.1.24A	F	6.3.0	6.4.0	R5s070177
_	RP-070590	2092	-	Corrections to GCF WI-12 Test Case 8.2.2.43	F	6.3.0	6.4.0	R5s070192
	RP-070590	2093	-	Summary of Regression Errors in wk23 ATSs	F	6.3.0	6.4.0	R5s070183
	RP-070590	2094	-	Summary of regression errors in wk23 ATS	F	6.3.0	6.4.0	R5s070166
	RP-070590	2095	-	TTCN Correction in testcases 8.2.2.41, 8.2.2.42, 8.2.3.31, 8.2.3.32, 8.2.3.33, 8.2.3.34, 8.2.3.35	F	6.3.0	6.4.0	R5s070175
	RP-070590	2096	-	Summary of regression errors in the wk23 IR_U ATS.	F	6.3.0	6.4.0	R5s070171
	RP-070591	2097	-	Correction to MAC testcase 7.1.3.2	F	6.3.0	6.4.0	R5s070167
	RP-070603	2098	-	Correction to E-DCH RRC testcase 8.3.4.10	F F	6.3.0	6.4.0	R5s070170
	RP-070591	2099	-	Correction to RRC testcase 8.2.6.37, 8.2.6.37b & 8.4.1.14		6.3.0	6.4.0	R5s070169
	RP-070595	2100	-	Correction to RRC testcase 8.4.1.47	F	6.3.0	6.4.0	R5s070168
	RP-070595	2101	-	Correction to DSAC test cases	F	6.3.0	6.4.0	R5s070165
	RP-070595	2102	-	Summary of Regression Errors in wk21 ATSs	F	6.3.0	6.4.0	R5s070164
	RP-070591 RP-070591	2103	-	Summary of regression errors in wk21 ATS Summary of Regression Errors in wk17 ATSs	F	6.3.0 6.3.0	6.4.0	R5s070163
	RP-070591	2104 2105	-	, ,	F F	6.3.0	6.4.0	R5s070157
	RP-070591	2105	-	Corrections to GCF WI-10 Test Cases 8.4.1.8 Correction of approved GCF WI12 test case 8.2.6.44.	F	6.3.0	6.4.0 6.4.0	R5s070161 R5s070162
	RP-070603	2107	-	Addition of GCF WI-25 HSUPA test case 7.1.6.2.1 to	В	6.3.0	6.4.0	R5s070162
				HSU ATS v6.2.0				
	RP-070603	2108	-	Addition of WB-AMR RAB test case 14.7.8 to HSU_ENH_r6 ATS V6.1.0	В	6.3.0	6.4.0	R5s070151
	RP-070591	2109	-	Summary of regression errors in wk18 ATS	F	6.3.0	6.4.0	R5s070154
	RP-070591	2110	-	Corrections to GCF WI-10 NAS Test Cases 9.4.8	F	6.3.0	6.4.0	R5s070155
	RP-070591	2111	-	Correction to BMC Test Cases 16.3 and 14.4.4	F	6.3.0	6.4.0	R5s070156
	RP-070591 RP-070591	2112 2113	-	Correction of approved GCF WI12 test case 8.1.2.13. Corrections to GCF WI-10 NAS Test Cases 8.3.9.1	F F	6.3.0 6.3.0	6.4.0 6.4.0	R5s070153 R5s070213
RP-37	RP-070591	2114	-	Corrections to GCF WI-10 NAS Test Cases 6.3.9.1	F	6.3.0	6.4.0	R5s070213
	RP-070591	2115	-	Cell setup issue in 16 Idle Mode, RRC and NAS test cases	F	6.3.0	6.4.0	R5s070214
RP-37	RP-070591	2116	L	Summary of regression errors in wk28 ATS	F	6.3.0	6.4.0	R5s070215
	RP-070591	2117	L	Addition of GCF WI-047 test case 8.3.1.1a to RRC	В	6.3.0	6.4.0	R5s070215
				ATS.				
RP-37	RP-070591	2118	-	TTCN Correction in testcase 6.2.2.2	F	6.3.0	6.4.0	R5s070216
	RP-070591	2119	-	Addition of GCF WI-047 test case 8.3.2.1a to RRC ATS.		6.3.0	6.4.0	R5s070193
	RP-070603	2120	-	Addition of GCF WI-25 HSUPA test case 8.4.1.49 to HSU ATS v6.3.0	В	6.3.0	6.4.0	R5s070202
RP-38	RP-070873	2121		Correction of max bit rate in QoS and AT commands for different UE categories and other maintenance	F	6.4.0	6.5.0	R5-073030
RP-38	RP-070873	2122		Application of synchronized data sending on MTCH and other maintenance for MBMS	F	6.4.0	6.5.0	R5-073032
	RP-070860	2123		Handling RLP XID in CSD call	F	6.4.0	6.5.0	R5-073467
RP-38	RP-070860	2124		R99 routine maintenance for PIXIT etc	F	6.4.0	6.5.0	R5-073435
RP-38	RP-070864	2125		To add new RRC test case 8.2.1.8 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070283
RP-38	RP-070864	2126		To add new GMM test case 12.7 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070444
RP-38	RP-070864	2127		To add new RRC test case 8.1.1.1 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070281
RP-38	RP-070864	2128			В	6.4.0	6.5.0	R5s070291
RP-38	RP-070864	2129		To add new test case 16.1.1 to the LCR TDD SMS	В	6.4.0	6.5.0	R5s070293
RP-38	RP-070864	2130		To add new SM test case 11.1.1.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070301
RP-38	RP-070864	2131		To add new test case 18.1.2.6 to the LCR TDD RAB	В	6.4.0	6.5.0	R5s070295
		0400	-	ATS To add new test case 7.1.1.1 to the LCR TDD MAC	В	6.4.0	6.5.0	R5s070297
RP-38	RP-070864	2132						
RP-38	RP-070864 RP-070864	2132		ATS To add new test case 7.2.3.12 to the LCR TDD RLC ATS	В	6.4.0	6.5.0	R5s070299

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
mg				ATS		VCIS	VCIS	
RP-38	RP-070864	2135		To add new RRC test case 8.1.1.4 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070309
RP-38	RP-070864	2136		To add new RRC test case 8.1.12 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070307
RP-38	RP-070864	2137		To add new RRC test case 8.1.5.4 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070323
RP-38	RP-070864	2138		To add new RRC test case 8.1.9 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070325
RP-38	RP-070864	2139		To add new RRC test case 8.2.2.11 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070331
RP-38	RP-070864	2140		To add new RRC test case 8.1.5.1 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070321
RP-38	RP-070864	2141		To add new RRC test case 8.2.2.9 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070329
RP-38	RP-070864	2142		To add new RRC test case 8.2.2.8 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070327
RP-38	RP-070864	2143		To add new RRC test case 8.2.3.7 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070335
RP-38	RP-070864	2144		To add new RRC test case 8.2.3.11 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070339
RP-38	RP-070865	2145		To add new RRC test case 8.2.3.9 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070337
RP-38	RP-070865	2146		To add new RRC test case 8.2.2.17 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070333
RP-38	RP-070865	2147		To add new RRC test case 8.2.6.7 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070347
RP-38	RP-070865	2148		To add new RRC test case 8.2.3.29 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070345
RP-38	RP-070865	2149		To add new RRC test case 8.2.6.11 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070349
RP-38	RP-070865	2150		To add new RRC test case 8.2.3.15 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070341
RP-38	RP-070865	2151		To add new RRC test case 8.4.1.17 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070353
RP-38	RP-070865	2152		To add new MM test case 9.2.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070358
RP-38	RP-070865	2153		To add new RRC test case 8.2.6.20 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070351
RP-38	RP-070865	2154		To add new RRC test case 8.4.1.24 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070355
RP-38	RP-070865	2155		To add new MM test case 9.5.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070362
RP-38	RP-070865	2156		To add new MM test case 9.4.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070360
RP-38	RP-070865	2157		To add new CC test case 10.1.2.2.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070368
RP-38	RP-070865	2158		To add new CC test case 10.1.2.2.3 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070370
RP-38	RP-070865	2159		To add new test case 13.2.2.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070480
RP-38	RP-070865	2160		To add new RRC test case 8.4.1.16 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070285
RP-38	RP-070865	2161		To add new CC test case 10.1.2.2.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070366
RP-38	RP-070865	2162		To add new CC test case 10.1.2.4.6 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070384
RP-38	RP-070865	2163		To add new CC test case 10.1.2.7.3 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070408
RP-38	RP-070865	2164		To add new GMM test case 12.4.3.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070440
RP-38	RP-070866	2165		To add new GMM test case 12.5 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070442
RP-38	RP-070866	2166		To add new test case 7.1.1.8 to the LCR TDD MAC ATS	В	6.4.0	6.5.0	R5s070470
RP-38	RP-070866	2167		To add new test case 7.2.3.34 to the LCR TDD RLC ATS	В	6.4.0	6.5.0	R5s070474
RP-38	RP-070866	2168		To add new CC test case 10.1.3.3.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070412
RP-38	RP-070866	2169		To add new GMM test case 12.3.1.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070428
RP-38	RP-070866	2170		To add new RRC test case 8.1.1.7 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070311

Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-38	RP-070866	2171		To add new MM test case 9.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070287
RP-38	RP-070866	2172		_	В	6.4.0	6.5.0	R5s070388
RP-38	RP-070866	2173		To add new GMM test case 12.4.1.1b to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070436
RP-38	RP-070866	2174		To add new SM test case 11.3.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070476
RP-38	RP-070866	2175		To add new GMM test case 12.3.1.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070430
RP-38	RP-070866	2176		To add new test case 16.1.9.2 to the LCR TDD SMS ATS	В	6.4.0	6.5.0	R5s070458
RP-38	RP-070866	2177		To add new CC test case 10.1.2.3.3 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070376
RP-38	RP-070866	2178			В	6.4.0	6.5.0	R5s070378
RP-38	RP-070866	2179		To add new CC test case 10.1.2.3.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070374
RP-38	RP-070866	2180			В	6.4.0	6.5.0	R5s070406
RP-38	RP-070866	2181		To add new GMM test case 12.9.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070452
RP-38	RP-070866	2182		To add new GMM test case 12.9.2 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070448
RP-38	RP-070866	2183			В	6.4.0	6.5.0	R5s070416
RP-38	RP-070866	2184		To add new RRC test case 8.1.3.3 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070319
RP-38	RP-070867	2185			В	6.4.0	6.5.0	R5s070414
RP-38	RP-070867	2186			В	6.4.0	6.5.0	R5s070438
RP-38	RP-070867	2187			В	6.4.0	6.5.0	R5s070390
RP-38	RP-070867	2188		To add new test case 18.1.2.13.2 to the LCR TDD RAB ATS	В	6.4.0	6.5.0	R5s070462
RP-38	RP-070867	2189		To add new CC test case 10.1.2.4.10 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070392
RP-38	RP-070867	2190			В	6.4.0	6.5.0	R5s070386
RP-38	RP-070867	2191		To add new RRC test case 8.1.3.1 to the LCR TDD RRC ATS	В	6.4.0	6.5.0	R5s070317
RP-38	RP-070867	2192			В	6.4.0	6.5.0	R5s070289
RP-38	RP-070867	2193		To add new CC test case 10.1.2.4.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070382
RP-38	RP-070867	2194			В	6.4.0	6.5.0	R5s070460
RP-38	RP-070867	2195			В	6.4.0	6.5.0	R5s070398
RP-38	RP-070867	2196			В	6.4.0	6.5.0	R5s070422
RP-38	RP-070867	2197		To add new GMM test case 12.9.1 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070446
RP-38	RP-070867	2198			В	6.4.0	6.5.0	R5s070394
RP-38	RP-070867	2199			В	6.4.0	6.5.0	R5s070400
RP-38	RP-070867	2200			В	6.4.0	6.5.0	R5s070402
RP-38	RP-070867	2201			В	6.4.0	6.5.0	R5s070410
RP-38	RP-070867	2202		To add new MM test case 9.5.4 to the LCR TDD NAS ATS	В	6.4.0	6.5.0	R5s070364
RP-38	RP-070867	2203			В	6.4.0	6.5.0	R5s070380
RP-38	RP-070867	2204			В	6.4.0	6.5.0	R5s070372
RP-38	RP-070868	2205			В	6.4.0	6.5.0	R5s070396
RP-38	RP-070868	2206		To add new test case 18.1.2.15 to the LCR TDD RAB ATS	В	6.4.0	6.5.0	R5s070464
RP-38	RP-070868	2207		To add new RRC test case 8.1.1.8 to the LCR TDD	В	6.4.0	6.5.0	R5s070313

RRC ATS	Meet- ing	TSG doc	CR	Rev	Subject	Cat	Old vers	New vers	WG doc
RP-970868 2290 To add now test case 13.2.2.1 to the LCR TDD NAS B 6.4.0 6.5.0 R56970478 ATS RP-970868 2210 To add now test case 16.1.2 to the LCR TDD SMS B 6.4.0 6.5.0 R56970434 RR-478 RP-970868 2211 To add now test case 16.1.2 to the LCR TDD SMS B 6.4.0 6.5.0 R56970456 RP-938 RP-970868 2212 To add now test case 16.1.2 to the LCR TDD B 6.4.0 6.5.0 R56970464 RR-48 RP-970868 2212 To add now CC test case 10.1.2.7.1 to the LCR TDD B 6.4.0 6.5.0 R56970424 RR-48 RP-970868 2214 To add now CC test case 10.1.2.7.1 to the LCR TDD B 6.4.0 6.5.0 R56970424 RR-93 RP-970868 2214 To add now CC test case 10.1.3.5.6 to the LCR TDD RAB B 6.4.0 6.5.0 R56970424 RP-93 RP-970868 2215 To add now CC test case 10.1.3.5.6 to the LCR TDD B 6.4.0 6.5.0 R56970472 RP-93 RP-970868 2216 To add now CC test case 10.1.3.5.6 to the LCR TDD B 6.4.0 6.5.0 R56970472 RP-93 RP-970868 2217 To add now CC test case 12.9.3 to the LCR TDD B 6.4.0 6.5.0 R56970472 RP-93 RP-970868 2218 To add now CC test case 12.9.3 to the LCR TDD B 6.4.0 6.5.0 R56970472 RP-93 RP-970868 2218 To add now CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R56970418 RR-478 RP-970868 2219 To add now CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R56970418 RR-478 RP-970868 2219 To add now CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R56970418 RR-478 RP-970868 2219 To add now CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R56970418 RR-478 RP-970868 2221 To add now CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R56970418 RR-478 RP-970868 2221 To add now CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R56970418 RR-478 RP-970868 2221 To add now CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R56970428 RP-93 RP-970868 2221 To add now CC test case 10.1.3.4.1 to t									
RP-38 RP-070868 210 To add new RRC test case 8.2.3.19 to the LCR TDD B 6.4.0 6.5.0 R56070343 RRCATS RP-38 RP-070868 2211 To add new test case 16.1.2 to the LCR TDD SMS B 6.4.0 6.5.0 R56070456 RP-38 RP-070868 2212 To add new SMM test case 12.2.1.7 to the LCR TDD B 6.4.0 6.5.0 R56070424 NAS ATS RP-070868 2213 To add new test case 16.1.2 to the LCR TDD B 6.4.0 6.5.0 R56070424 NAS ATS RP-070868 2214 To add new test case 16.1.2 to the LCR TDD RAB B 6.4.0 6.5.0 R56070424 NAS ATS RP-070868 2215 To add new CC test case 10.1.3.5.6 to the LCR TDD RAB B 6.4.0 6.5.0 R56070426 NAS ATS RP-070868 2216 To add new CC test case 10.1.3.5.6 to the LCR TDD B 6.4.0 6.5.0 R56070427 RP-38 RP-070868 217 NAS ATS RP-070868 219 NAS ATS RP-070868 219 NAS ATS RP-070868 2219 NAS ATS RP-070868 2220 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2221 NAS ATS RP-070868 2222 NAS RP-070868 2221 NAS ATS RP-070868 2222 NAS RP-07	RP-38		2208			В	6.4.0		R5s070454
RP-070868 2211 To add new test case 16.1.2 to the LCR TDD SMS B 6.4.0 6.5.0 R5s070456 ATS RP-070868 2212 To add new CC test case 10.1.2.7.1 to the LCR TDD B 6.4.0 6.5.0 R5s070404 RP-38 RP-070868 2213 To add new CC test case 10.1.2.7.1 to the LCR TDD B 6.4.0 6.5.0 R5s070404 RP-38 RP-070868 2214 To add new CC test case 10.1.2.7.1 to the LCR TDD B 6.4.0 6.5.0 R5s070424 RP-38 RP-070868 2215 To add new Est case 18.1.2.26 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070426 RP-38 RP-070868 2215 To add new CC test case 10.1.3.5 to the LCR TDD B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 2216 To add new Lest case 7.1.3.1 to the LCR TDD MAC B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 2216 To add new RRC test case 12.9.3 to the LCR TDD B 6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2217 To add new RRC test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2218 To add new RRC test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070418 RP-38 RP-070868 2219 To add new GMM test case 12.2.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070418 RP-38 RP-070868 2220 To add new GMM test case 12.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070418 RP-38 RP-070868 2221 To add new GMM test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070428 RP-38 RP-070868 2221 To add new GMM test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070428 RP-38 RP-070868 2221 To add new MAS test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R5s070438 RP-38 RP-070868 2221 To add new MAS test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R5s070438 RP-38 RP-070868 2221 To add new MAS test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070438 RP-38 RP-070868 2224 To add new MAS test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070438 RP-38 RP-070869 2225 CR 10.4 test case 9.3.1 to the LCR TDD B 6.4.0 6.5	RP-38	RP-070868	2209			В	6.4.0	6.5.0	R5s070478
RP-38 RP-070868 Z211 To add new test case 10.12.7 to the LCR TDD SMS B 6.4.0 6.5.0 R5s070456 RP-38 RP-070868 Z212 To add new CC test case 10.12.7.1 to the LCR TDD B 6.4.0 6.5.0 R5s070404 RP-38 RP-070868 Z213 To add new GMM test case 12.2.1.7 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070424 RP-38 RP-070868 Z215 To add new test case 18.1.2.26 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070466 RP-38 RP-070868 Z216 To add new CL test case 10.1.3.5 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 Z216 To add new CL test case 10.1.3.5 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 Z217 To add new GMM test case 12.9.3 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 Z218 To add new GMM test case 12.2.3 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070450 RP-38	RP-38	RP-070868	2210			В	6.4.0	6.5.0	R5s070343
RP-38 RP-070868 Z12 To add new CC test case 10.12.7.1 to the LCR TDD B 6.4.0 6.5.0 R59070424 RP-38 RP-070868 Z213 To add new GMM test case 12.2.1.7 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070424 RP-38 RP-070868 Z214 To add new test case 13.1.2.26 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 Z215 To add new test case 10.1.3.5.6 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 Z216 To add new test case 7.1.3.1 to the LCR TDD RAC B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 Z218 To add new SMM test case 12.9.3 to the LCR TDD RAC B 6.4.0 6.5.0 R5s070450 RP-38 RP-070868 Z219 To add new CE test case 8.12.7 to the LCR TDD RAC B 6.4.0 6.5.0 R5s070458 RP-38 RP-070868 Z221 To add new CE test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070418 RP-38 R	RP-38	RP-070868	2211		To add new test case 16.1.2 to the LCR TDD SMS	В	6.4.0	6.5.0	R5s070456
RP-38 RP-070868 2213 To add new GMM test case 12.21.7 to the LCR TDD B 6.4.0 6.5.0 R5s070424 RP-38 RP-070868 2214 To add new test case 10.13.5 to the LCR TDD RAB B 6.4.0 6.5.0 R5s070426 RP-38 RP-070868 2215 To add new Cct test case 10.13.5 to the LCR TDD MAC B 6.4.0 6.5.0 R5s070420 RP-38 RP-070868 2216 To add new test case 27.1.3.1 to the LCR TDD MAC B 6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2217 To add new GMM test case 12.9.3 to the LCR TDD B 6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2218 To add new RRC test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070415 RP-38 RP-070868 2221 To add new Cct est case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R5s070418 RP-38 RP-070868 2221 To add new Est case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070428 RP-38 RP-070868	RP-38	RP-070868	2212		To add new CC test case 10.1.2.7.1 to the LCR TDD	В	6.4.0	6.5.0	R5s070404
RP-38 RP-070868 2214 To add new test case 18.12.26 to the LCR TDD RAB 6.4.0 6.5.0 R5s070466 RP-38 RP-070868 2215 To add new CC test case 7.1.3.1 to the LCR TDD MAC 8.6.4.0 6.5.0 R5s070472 RP-38 RP-070868 2216 To add new test case 7.1.3.1 to the LCR TDD MAC 8.6.4.0 6.5.0 R5s070472 RP-38 RP-070868 2217 To add new test case 12.9.3 to the LCR TDD 8.6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2218 To add new RRC test case 8.1.2.7 to the LCR TDD 8.6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2219 To add new RRC test case 10.1.3.4.1 to the LCR TDD 8.6.4.0 6.5.0 R5s070418 RP-38 RP-070868 2221 To add new GMM test case 12.2.2.1 to the LCR TDD 8.6.4.0 6.5.0 R5s070426 RP-38 RP-070868 2221 To add new GMM test case 12.3.1.5 to the LCR TDD 8.6.4.0 6.5.0 R5s070426 RP-38 RP-070868 22221 To add new GMM test case 12.3.1.5 to the LCR TDD 8.6.4.0 6.5.0 <td>RP-38</td> <td>RP-070868</td> <td>2213</td> <td></td> <td>To add new GMM test case 12.2.1.7 to the LCR TDD</td> <td>В</td> <td>6.4.0</td> <td>6.5.0</td> <td>R5s070424</td>	RP-38	RP-070868	2213		To add new GMM test case 12.2.1.7 to the LCR TDD	В	6.4.0	6.5.0	R5s070424
RP-38 RP-070868 2216 To add new CC test case 10.1.3.6.6 to the LCR TDD B 6.4.0 6.5.0 R5s070420 NAS ATS RP-38 RP-070868 2216 To add new test case 7.1.3.1 to the LCR TDD MAC B 6.4.0 6.5.0 R5s070472 ATS RP-38 RP-070868 2217 To add new CRM test case 12.9.3 to the LCR TDD B 6.4.0 6.5.0 R5s070472 ATS RP-38 RP-070868 2218 To add new CRM test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070450 NAS ATS RP-38 RP-070868 2219 To add new CRM test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070418 NAS ATS RP-38 RP-070868 2219 To add new CRM test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070418 NAS ATS RP-38 RP-070868 2220 To add new CRM test case 12.2.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070426 NAS ATS RP-38 RP-070868 2221 To add new CRM test case 12.2.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070426 NAS ATS RP-38 RP-070868 2221 To add new CRM test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070434 NAS ATS RP-38 RP-070868 2222 To add new CRM test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070434 NAS ATS RP-38 RP-070868 2223 To add new GRM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 R5s070432 NAS ATS RP-38 RP-070868 2224 To add new MAS test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070432 NAS ATS RP-38 RP-070869 2225 CR to 34.123-3.4 Add new verified and e-mail agreed F 6.4.0 6.5.0 R5s070437 NAS ATS RP-38 RP-070860 2225 CR to 34.123-3.4 Add new verified and e-mail agreed F 6.4.0 6.5.0 R5s070437 NAS ATS RP-38 RP-070861 2227 Correction to GCF WI-10 and Interband RRC F 6.4.0 6.5.0 R5s070482 RP-38 RP-070861 2228 Correction to GCF WI-10 RD Cest case 8.3.1.6 F 6.4.0 6.5.0 R5s070482 RP-38 RP-070861 2229 Handling 0.45 1 for Ut not supporting GSM. F 6.4.0 6.5.0 R5s070262 RP-38 RP-070861 2230 TTCN Correction in BSUPA test case 6.1.2.1 F 6.4.0 6.5.0 R5s070262 RP-38 RP-070861 2231 Correction to GCF WI-10 RD RC test case 6.1.2.1 F 6.4.0 6.5.0 R5s070262 RP-38 RP-070861 2231 Correction to GCF WI-010 RDC test case 6.1.2.1 F 6.4.0 6.5.0 R5s070262 RP-38 RP-070861 2231 Correction to GCF WI-010 RDC test case 6.2.2.4 N 6.4.0 6.5.0 R5s07026	RP-38	RP-070868	2214		To add new test case 18.1.2.26 to the LCR TDD RAB	В	6.4.0	6.5.0	R5s070466
RP-38 RP-070868 2216 To add new test case 7.1.3.1 to the LCR TDD MAC B 6.4.0 6.5.0 R5s070472 RP-38 RP-070868 2217 To add new GMM test case 12.9.3 to the LCR TDD B 6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2218 To add new RRC test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070315 RP-38 RP-070868 2219 To add new CGC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R5s070418 RP-38 RP-070868 2220 To add new GMM test case 12.2.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070426 RP-38 RP-070868 2221 To add new GMM test case 12.3.2.1 to the LCR TDD MAC B 6.4.0 6.5.0 R5s070426 RP-38 RP-070868 2222 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 R5s070434 RP-38 RP-070868 2222 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 R5s070432 RP-38 RP-070	RP-38	RP-070868	2215		To add new CC test case 10.1.3.5.6 to the LCR TDD	В	6.4.0	6.5.0	R5s070420
RP-38 RP-070868 2217 To add new GMM test case 12.9.3 to the LCR TDD B 6.4.0 6.5.0 R5s070450 RP-38 RP-070868 2218 To add new RRC test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 R5s070315 RP-38 RP-070868 2219 To add new CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 R5s070418 RP-38 RP-070868 2220 To add new GMM test case 12.2.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070426 RP-38 RP-070868 2221 To add new GMM test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070434 RP-38 RP-070868 2222 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 R5s070434 RP-38 RP-070868 2222 To add new MAS test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070432 RP-38 RP-070868 2224 To add new NAS test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070217 RP-38 RP-0708690	RP-38	RP-070868	2216		To add new test case 7.1.3.1 to the LCR TDD MAC	В	6.4.0	6.5.0	R5s070472
RP-38 RP-070868 2218 To add new RRC test case 8.1.2.7 to the LCR TDD B 6.4.0 6.5.0 RS5070315 RP-38 RP-070868 2219 To add new CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 RS5070418 RP-38 RP-070868 2220 To add new GMM test case 12.2.2.1 to the LCR TDD B 6.4.0 6.5.0 RS5070426 RP-38 RP-070868 2221 To add new GMM test case 12.3.2.1 to the LCR TDD MAC B 6.4.0 6.5.0 RS5070434 RP-38 RP-070868 2222 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 RS5070434 RP-38 RP-070868 2223 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 RS5070432 RP-38 RP-070868 2224 To add new Value verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose). F 6.4.0 6.5.0 RS5070217 RP-38 RP-070861 2226 Corrections to GCF WI-10 and Interband RC F 6.4.0 6.5.0 RS5070482 <tr< td=""><td>RP-38</td><td>RP-070868</td><td>2217</td><td></td><td>To add new GMM test case 12.9.3 to the LCR TDD</td><td>В</td><td>6.4.0</td><td>6.5.0</td><td>R5s070450</td></tr<>	RP-38	RP-070868	2217		To add new GMM test case 12.9.3 to the LCR TDD	В	6.4.0	6.5.0	R5s070450
RP-38 RP-070868 2219 To add new CC test case 10.1.3.4.1 to the LCR TDD B 6.4.0 6.5.0 RSs070418 RP-38 RP-070868 2220 To add new GMM test case 12.2.2.1 to the LCR TDD B 6.4.0 6.5.0 RSs070426 RP-38 RP-070868 2221 To add new GMM test case 12.3.2.1 to the LCR TDD MAC B 6.4.0 6.5.0 RSs070434 RP-38 RP-070868 2222 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 RSs070434 RP-38 RP-070868 2223 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 RSs070432 RP-38 RP-070868 2224 To add new WAS test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 RSs070217 RP-38 RP-070869 2225 CR to 34.123-33. Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose). F 6.4.0 6.5.0 RSs070357 RP-38 RP-070862 2226 Corrections to GCF WI-10 and Interband RRC test case 8.2.1 F 6.4.0 6.5.0 RSs070483	RP-38	RP-070868	2218		To add new RRC test case 8.1.2.7 to the LCR TDD	В	6.4.0	6.5.0	R5s070315
RP-38 RP-070868 2220 To add new GMM test case 12.2.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070426	RP-38	RP-070868	2219			В	6.4.0	6.5.0	R5s070418
RP-38 RP-070868 2221 To add new test case 7.1.1.2 to the LCR TDD MAC B 6.4.0 6.5.0 R5s070468 RP-38 RP-070868 2222 To add new GMM test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070434 RP-38 RP-070868 2223 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 R5s070432 RP-38 RP-070868 2224 To add new NSt test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070217 RP-38 RP-070869 2225 CR to 34.123-32 Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A RF 6.4.0 6.5.0 R5s070217 RP-38 RP-070861 2226 Corrections to testcase 8.1.4.9 & 8.3.4.10 F 6.4.0 6.5.0 R5s070483 RP-38 RP-070861 2227 Correction to To RC test case 8.3.1.6 F 6.4.0 6.5.0 R5s070482 RP-38 RP-070861 2229 Handling of A.5.1 for UE not supporting GSM. F 6.4.0 6.5.0 R5s0702424	RP-38	RP-070868	2220			В	6.4.0	6.5.0	R5s070426
RP-38 RP-070868 2222 To add new GMM test case 12.3.2.1 to the LCR TDD B 6.4.0 6.5.0 R5s070434	RP-38	RP-070868	2221			В	6.4.0	6.5.0	R5s070468
RP-38 RP-070868 2223 To add new GMM test case 12.3.1.5 to the LCR TDD B 6.4.0 6.5.0 R5s070432 NAS ATS					ATS				
RP-38 RP-070868 2224 To add new NAS test case 9.3.1 to the LCR TDD B 6.4.0 6.5.0 R5s070217					NAS ATS				
NAS ATS					NAS ATS				
RP-38 RP-070862 2226 Corrections to GCF WI-10 and Interband RRC F 6.4.0 6.5.0 R5s070357					NAS ATS				R5s070217
RP-38 RP-070861 2227 Correction to testcase 8.4.1.49 & 8.3.4.10 F 6.4.0 6.5.0 R5s070483 RP-38 RP-070861 2228 Correction to GCF WI-010 RRC test case 8.3.1.6 F 6.4.0 6.5.0 R5s070482 RP-38 RP-070861 2229 Handling of A5_1 for UE not supporting GSM. F 6.4.0 6.5.0 R5s070484 RP-38 RP-070862 2230 TTCN Correction in HSUPA testcases F 6.4.0 6.5.0 R5s070276 RP-38 RP-070861 2231 Corrections to GCF WI-10 RRC test case 6.1.2.1 F 6.4.0 6.5.0 R5s070276 RP-38 RP-070861 2232 Introduction of wait timer for RRC Connection F 6.4.0 6.5.0 R5s070225 RP-38 RP-070861 2232 Correction to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070221 Request in preamble RP-38 RP-070861 2234 Corrections to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070222 8.3.11.13 RP-38 RP-070861 2235 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2235 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2236 Correction to GCF WI-016 WB-AMR test case 6.2.1.X, F 6.4.0 6.5.0 R5s070220 RP-38 RP-070861 2236 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, F 6.4.0 6.5.0 R5s070220 17.2.3.4, 17.2.3.8, 17.2.3.9, 17.2.3.8, 17.2.3.9 F 6.4.0 6.5.0 R5s070226 RP-38 RP-070861 2237 Addition of GCF WI-25 EDCH RRC test case 8.2.2.44 to B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2238 Addition of GCF WI-25 EDCH RRC test case 8.2.2.44 to B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070257 RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070257 RP-38 RP-070875 2241 Wi36 Regression errors in testcase 6.2.1.8 F 6.4.0 6.5.0 R5s070255 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for F 6.4.0	RP-38	RP-070890	2225		TTCN test cases in the TC lists in 34.123-3 (prose),	F	6.4.0	6.5.0	-
RP-38 RP-070861 2227 Correction to testcase 8.4.1.49 & 8.3.4.10 F 6.4.0 6.5.0 R5s070483 RP-38 RP-070861 2228 Correction to GCF WI-010 RRC test case 8.3.1.6 F 6.4.0 6.5.0 R5s070482 RP-38 RP-070862 2230 TTCN Correction in HSUPA testcases F 6.4.0 6.5.0 R5s070276 RP-38 RP-070861 2231 Corrections to GCF WI-10 RRC test case 6.1.2.1 F 6.4.0 6.5.0 R5s070225 RP-38 RP-070861 2232 Introduction of wait timer for RRC Connection F 6.4.0 6.5.0 R5s070225 RP-38 RP-070861 2233 Correction to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070222 RP-38 RP-070870 2234 Corrections to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070224 RP-38 RP-070870 2234 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2235	RP-38	RP-070862	2226			F	6.4.0	6.5.0	R5s070357
RP-38 RP-070861 2229 Handling of A5_1 for UE not supporting GSM. F 6.4.0 6.5.0 R5s0702484 RP-38 RP-070862 2230 TTCN Correction in HSUPA testcases F 6.4.0 6.5.0 R5s070276 RP-38 RP-070861 2231 Corrections to GCF WI-10 RRC test case 6.1.2.1 F 6.4.0 6.5.0 R5s070225 RP-38 RP-070861 2232 Introduction of wait timer for RRC Connection F 6.4.0 6.5.0 R5s070221 RP-38 RP-070861 2233 Correction to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070222 RP-38 RP-070870 2234 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2235 Corrections to GCF WI-10 IR_U test cases 6.2.1.X, solutions of GCP WI-10 IR_U test cases 6.2.1.X, solutions of GCP WI-10 IR_U test cases 6.2.1.X, solutions of GCP WI-2.3.3, solutions of G		RP-070861	2227			F	6.4.0	6.5.0	
RP-38 RP-070862 2230 TTCN Correction in HSUPA testcases F 6.4.0 6.5.0 R5s070276 RP-38 RP-070861 2231 Corrections to GCF WI-10 RRC test case 6.1.2.1 F 6.4.0 6.5.0 R5s070225 RP-38 RP-070861 2232 Introduction of wait timer for RRC Connection F 6.4.0 6.5.0 R5s070221 RP-38 RP-070861 2233 Correction to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070222 RP-38 RP-070870 2234 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2235 Corrections to GCF WI-10 IR_U test cases 6.2.1.X, s.3.3 F 6.4.0 6.5.0 R5s070229 RP-38 RP-070861 2236 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, s.7 F 6.4.0 6.5.0 R5s070220 RP-38 RP-070861 2237 Correction to the RRC test case 8.2.2.43, 8.2.6.39 folial security folial security folial security folial security folial security folial security folial security folial security folial security folial security folial s		RP-070861			Correction to GCF WI-010 RRC test case 8.3.1.6	F		6.5.0	R5s070482
RP-38 RP-070861 2231 Corrections to GCF WI-10 RRC test case 6.1.2.1 F 6.4.0 6.5.0 R5s070225 RP-38 RP-070861 2232 Introduction of wait timer for RRC Connection F 6.4.0 6.5.0 R5s070221 RP-38 RP-070861 2233 Correction to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070222 RP-38 RP-070870 2234 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2235 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2236 Correction to GCF WI-10 IR_U test cases 6.2.1.X, F 6.4.0 6.5.0 R5s070229 RP-38 RP-070861 2236 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, F F 6.4.0 6.5.0 R5s070220 RP-38 RP-070861 2237 Correction to the RRC test case 8.2.2.43, 8.2.6.39 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070875 2	RP-38	RP-070861	2229		Handling of A5_1 for UE not supporting GSM.	F	6.4.0	6.5.0	R5s070484
RP-38 RP-070861 2232 Introduction of wait timer for RRC Connection F 6.4.0 6.5.0 R5s070221 RP-38 RP-070861 2233 Correction to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070222 RP-38 RP-070870 2234 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2235 Corrections to GCF WI-10 IR_U test cases 6.2.1.X, F 6.4.0 6.5.0 R5s070219 RP-38 RP-070861 2236 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, T F 6.4.0 6.5.0 R5s070220 RP-38 RP-070861 2237 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, T F 6.4.0 6.5.0 R5s070226 RP-38 RP-070861 2237 Correction to the RRC test case 8.2.2.43, 8.2.6.39 F 6.4.0 6.5.0 R5s070226 RP-38 RP-070875 2238 Addition of GCF WI-25 EDCH RRC test case 8.2.1.36 B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2240	RP-38	RP-070862	2230		TTCN Correction in HSUPA testcases	F		6.5.0	R5s070276
RP-38 RP-070861 2232 Introduction of wait timer for RRC Connection F 6.4.0 6.5.0 R5s070221 RP-38 RP-070861 2233 Correction to GCF WI-013 InterRAT test case F 6.4.0 6.5.0 R5s070222 RP-38 RP-070870 2234 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224 RP-38 RP-070861 2235 Corrections to GCF WI-10 IR_U test cases 6.2.1.X, F 6.4.0 6.5.0 R5s070219 RP-38 RP-070861 2236 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, T F 6.4.0 6.5.0 R5s070220 RP-38 RP-070861 2237 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, T F 6.4.0 6.5.0 R5s070226 RP-38 RP-070861 2237 Correction to the RRC test case 8.2.2.43, 8.2.6.39 F 6.4.0 6.5.0 R5s070226 RP-38 RP-070875 2238 Addition of GCF WI-25 EDCH RRC test case 8.2.1.36 B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2240	RP-38	RP-070861	2231		Corrections to GCF WI-10 RRC test case 6.1.2.1	F	6.4.0	6.5.0	R5s070225
RP-38 RP-070870 2234 Corrections to GCF WI-014 WB-AMR test case 14.6.8 F 6.4.0 6.5.0 R5s070224	RP-38	RP-070861	2232		Introduction of wait timer for RRC Connection	F	6.4.0	6.5.0	R5s070221
RP-38 RP-070861 2235 Corrections to GCF WI-10 IR_U test cases 6.2.1.X, 8.3.7.3 F 6.4.0 6.5.0 R5s070219 RP-38 RP-070861 2236 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, 17.2.3.3, 17.2.3.3, 17.2.3.3, 17.2.3.3, 17.2.3.8, 17.2.3.9 F 6.4.0 6.5.0 R5s070220 RP-38 RP-070861 2237 Correction to the RRC test case 8.2.2.43, 8.2.6.39 F 6.4.0 6.5.0 R5s070226 RP-38 RP-070875 2238 Addition of GCF WI-25 EDCH RRC test case 8.2.1.36 B 6.4.0 6.5.0 R5s070248 RP-38 RP-070875 2239 Addition of GCF WI-25 EDCH RRC test case 8.2.2.44 to HSU ATS v6.3.0 B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070243 RP-38 RP-070861 2241 Wk36 Regression errors in testcase 6.2.1.8 F 6.4.0 6.5.0 R5s070257 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for HSU ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITIONAL ADDITION	RP-38	RP-070861	2233			F	6.4.0	6.5.0	R5s070222
RP-38 RP-070861 2236 Correction to AGPS test cases 17.2.3.2, 17.2.3.3, F 6.4.0 6.5.0 R5s070220	RP-38	RP-070870	2234		Corrections to GCF WI-014 WB-AMR test case 14.6.8	F	6.4.0	6.5.0	R5s070224
RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070245	RP-38	RP-070861	2235			F	6.4.0	6.5.0	R5s070219
RP-38 RP-070861 2237 Correction to the RRC test case 8.2.2.43, 8.2.6.39 and 8.2.6.44 F 6.4.0 6.5.0 R5s070226 RP-38 RP-070875 2238 Addition of GCF WI-25 EDCH RRC test case 8.2.1.36 B 6.4.0 6.5.0 R5s070248 RP-38 RP-070875 2239 Addition of GCF WI-25 HSUPA test case 8.2.2.44 to HSU ATS v6.3.0 B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070243 RP-38 RP-070861 2241 Wk36 Regression errors in testcase 6.2.1.8 F 6.4.0 6.5.0 R5s070257 RP-38 RP-070861 2242 Summary of regression errors in wk36 ATS F 6.4.0 6.5.0 R5s070255 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for HSPA F 6.4.0 6.5.0 R5s070254 RP-38 RP-070875 2244 Addition of GCF WI-024 test case 6.2.2.4 to HSLED HSL	RP-38	RP-070861	2236			F	6.4.0	6.5.0	R5s070220
RP-38 RP-070875 2238 Addition of GCF WI-25 EDCH RRC test case 8.2.1.36 B 6.4.0 6.5.0 R5s070248 RP-38 RP-070875 2239 Addition of GCF WI-25 HSUPA test case 8.2.2.44 to HSU ATS v6.3.0 B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070243 RP-38 RP-070861 2241 Wk36 Regression errors in testcase 6.2.1.8 F 6.4.0 6.5.0 R5s070257 RP-38 RP-070861 2242 Summary of regression errors in wk36 ATS F 6.4.0 6.5.0 R5s070255 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for HSPA F 6.4.0 6.5.0 R5s070254 RP-38 RP-070875 2244 Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0 B 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2245 Modification of Logical Channel Id for RB25 in Multicall scenario F 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2246<	RP-38	RP-070861	2237		Correction to the RRC test case 8.2.2.43, 8.2.6.39	F	6.4.0	6.5.0	R5s070226
RP-38 RP-070875 2239 Addition of GCF WI-25 HSUPA test case 8.2.2.44 to HSU ATS v6.3.0 B 6.4.0 6.5.0 R5s070245 RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070243 RP-38 RP-070861 2241 Wk36 Regression errors in testcase 6.2.1.8 F 6.4.0 6.5.0 R5s070257 RP-38 RP-070861 2242 Summary of regression errors in wk36 ATS F 6.4.0 6.5.0 R5s070255 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for HSPA F 6.4.0 6.5.0 R5s070254 RP-38 RP-070875 2244 Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2245 Modification of Logical Channel Id for RB25 in multicall scenario F 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2246 Addition of GCF WI-024 test case 6.2.2.5 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070235 RP-38 <	RP-38	RP-070875	2238			В	6.4.0	6.5.0	R5s070248
RP-38 RP-070875 2240 Addition of GCF WI-25 EDCH RRC test case 8.2.2.47 B 6.4.0 6.5.0 R5s070243 RP-38 RP-070861 2241 Wk36 Regression errors in testcase 6.2.1.8 F 6.4.0 6.5.0 R5s070257 RP-38 RP-070861 2242 Summary of regression errors in wk36 ATS F 6.4.0 6.5.0 R5s070255 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for HSPA F 6.4.0 6.5.0 R5s070254 RP-38 RP-070875 2244 Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070227 RP-38 RP-070875 2245 Modification of Logical Channel Id for RB25 in multicall scenario F 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2246 Addition of GCF WI-024 test case 6.2.2.5 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070235 RP-38 RP-070861 2247 Addition of RRC test case 8.2.2.50 B 6.4.0 6.5.0 R5s070263					Addition of GCF WI-25 HSUPA test case 8.2.2.44 to			_	_
RP-38 RP-070861 2241 Wk36 Regression errors in testcase 6.2.1.8 F 6.4.0 6.5.0 R5s070257 RP-38 RP-070861 2242 Summary of regression errors in wk36 ATS F 6.4.0 6.5.0 R5s070255 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for HSPA F 6.4.0 6.5.0 R5s070254 RP-38 RP-070875 2244 Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070227 RP-38 RP-070875 2245 Modification of Logical Channel Id for RB25 in multicall scenario F 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2246 Addition of GCF WI-024 test case 6.2.2.5 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070235 RP-38 RP-070861 2247 Addition of RRC test case 8.2.2.50 B 6.4.0 6.5.0 R5s070263	RP-38	RP-070875	2240			В	6.4.0	6.5.0	R5s070243
RP-38 RP-070861 2242 Summary of regression errors in wk36 ATS F 6.4.0 6.5.0 R5s070255 RP-38 RP-070875 2243 Modification of UL and DL max bit rate in QoS for HSPA F 6.4.0 6.5.0 R5s070254 RP-38 RP-070875 2244 Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070227 RP-38 RP-070875 2245 Modification of Logical Channel Id for RB25 in multicall scenario F 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2246 Addition of GCF WI-024 test case 6.2.2.5 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070235 RP-38 RP-070861 2247 Addition of RRC test case 8.2.2.50 B 6.4.0 6.5.0 R5s070263									
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RP-38 RP-070875 2244 Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070227 RP-38 RP-070875 2245 Modification of Logical Channel Id for RB25 in multicall scenario F 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2246 Addition of GCF WI-024 test case 6.2.2.5 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070235 RP-38 RP-070861 2247 Addition of RRC test case 8.2.2.50 B 6.4.0 6.5.0 R5s070263	RP-38				Modification of UL and DL max bit rate in QoS for			6.5.0	
RP-38 RP-070875 2245 Modification of Logical Channel Id for RB25 in multicall scenario F 6.4.0 6.5.0 R5s070256 RP-38 RP-070875 2246 Addition of GCF WI-024 test case 6.2.2.5 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070235 RP-38 RP-070861 2247 Addition of RRC test case 8.2.2.50 B 6.4.0 6.5.0 R5s070263	RP-38	RP-070875	2244		Addition of GCF WI-024 test case 6.2.2.4 to HSU_ENH_r6 ATS V6.3.0.	В	6.4.0		R5s070227
RP-38 RP-070875 2246 Addition of GCF WI-024 test case 6.2.2.5 to HSU_ENH_r6 ATS V6.3.0. B 6.4.0 6.5.0 R5s070235 RP-38 RP-070861 2247 Addition of RRC test case 8.2.2.50 B 6.4.0 6.5.0 R5s070263	RP-38	RP-070875	2245			F	6.4.0	6.5.0	R5s070256
RP-38 RP-070861 2247 Addition of RRC test case 8.2.2.50 B 6.4.0 6.5.0 R5s070263	RP-38	RP-070875	2246		Addition of GCF WI-024 test case 6.2.2.5 to	В	6.4.0	6.5.0	R5s070235
	RP-38	RP-070861	2247			В	6.4.0	6.5.0	R5s070263
	RP-38				Asn.1 6d0 patch for the support of F-DPCH Support		6.4.0		R5s070223

Meet-	TSG doc	CR	Rev	Subject	Cat	Old vers	New	WG doc
				Indicator			1010	
RP-38	RP-070861	2249		Summary of regression errors in wk38 ATS	F	6.4.0	6.5.0	R5s070258
RP-38	RP-070870	2250		Correction to GCF WI-14 Test Case 8.2.6.48	F	6.4.0	6.5.0	R5s070267
RP-38	RP-070861	2251		Corrections to GCF WI-10 RRC test case 6.1.2.1	F	6.4.0	6.5.0	R5s070266
RP-38	RP-070875	2252		TTCN Correction in GMM testcase 12.9.15	F	6.4.0	6.5.0	R5s070269
RP-38	RP-070861	2253		TTCN Correction in testcases 9.5.4, 9.5.5, 9.5.7.1	F	6.4.0	6.5.0	R5s070268
RP-38	RP-070875	2254		Introduce a more strict detection of the usage of RACH TF2 for UL CCCH transmission	F	6.4.0	6.5.0	R5s070270
RP-38	RP-070875	2255		Correction to GCF WI-25 test cases 8.3.1.41 and 8.2.6.50	F	6.4.0	6.5.0	R5s070272
RP-38	RP-070875	2256		Removal of GSM ciphering algorithm A5/2	F	6.4.0	6.5.0	R5s070275
RP-38	RP-070861	2257		Correction to RRC testcase 8.4.1.42	F	6.4.0	6.5.0	R5s070306
RP-38	RP-070861	2258		Correction to GCF Testcase 8.1.2.1, 8.1.2.7, 8.1.2.11, 8.1.5.1, 8.1.5.4, 8.1.7.1, 8.1.7.1b, 8.1.7.1c, 8.1.7.2, 8.1.12		6.4.0	6.5.0	R5s070279
RP-38	RP-070861	2259		Correction to RRC testcase 8.1.10.1	F	6.4.0	6.5.0	R5s070305
RP-38	RP-070861	2260		Summary of regression errors in wk38 ATS	F	6.4.0	6.5.0	R5s070271
RP-38	RP-070861	2261		Correction to the TTCN to Handle optional Packet Resource Request message	F	6.4.0	6.5.0	R5s070277
RP-38	RP-070862	2262		Summary of regression errors in wk38 ATS	F	6.4.0	6.5.0	R5s070278
RP-39	RP-080097	2263		Update RLP and MBMS RLC test models	F	6.5.0	6.6.0	R5-080364
RP-39	RP-080098	2264		Correction to AT commands used in 3GPP ATSs	F	6.5.0	6.6.0	R5-080218
RP-39	RP-080091	2265		Corrections to the PIXIT items	F	6.5.0	6.6.0	R5-080269
RP-39	RP-080098	2266		Removal of PDF version in formal delivries	F	6.5.0	6.6.0	R5-080566
RP-39	RP-080110	2267		Introducing Rel-7 test model	F	6.5.0	6.6.0	R5-080044r3
RP-39	RP-080090	2269		CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A	F	6.5.0	6.6.0	-
RP-39	RP-080099	2270		Summary of regression errors in MBMS wk03 ATS	F	6.5.0	6.6.0	R5s080013
RP-39	RP-080092	2271		Correction to GCF WI-010 RRC test case 8.3.3.1	F	6.5.0	6.6.0	R5s080007
RP-39	RP-080094	2272		Correction to testcase 7.1.5.6	F	6.5.0	6.6.0	R5s080005
RP-39	RP-080099	2273		Upgrade RRC asn.1 for tc 8.5.2.1 – UE supporting MBMS service change for a ptp RB	F	6.5.0	6.6.0	R5s080012
RP-39	RP-080092	2274		Summary of regression errors in wk49 ATS	F	6.5.0	6.6.0	R5s080002
RP-39	RP-080092	2275		Correction to PDU definition DTMINFORMATION in IRU ATS	F	6.5.0	6.6.0	R5s080003
RP-39	RP-080099	2276		Correction to SIB5 in MBMS ATS	F	6.5.0	6.6.0	R5s080006
RP-39	RP-080099	2277		Addition of GCF WI 49 MBMS RRC test case 8.5.3.2	В	6.5.0	6.6.0	R5s070571
RP-39	RP-080099	2278		Addition of GCF WI 49 MBMS RRC test case 8.5.5.2	В	6.5.0	6.6.0	R5s070584
RP-39	RP-080099	2279		Addition to MBMS RRC test case 8.5.5.1	В	6.5.0	6.6.0	R5s070596
RP-39	RP-080099	2280		Addition of GCF WI 49 MBMS RRC test case 8.5.5.3	В	6.5.0	6.6.0	R5s070586
RP-39	RP-080099	2281			F	6.5.0	6.6.0	R5s070592
RP-39	RP-080099	2282			В	6.5.0	6.6.0	R5s070526
RP-39	RP-080092	2283		TTCN Correction in 8.3.1.30	F	6.5.0	6.6.0	R5s070593
RP-39	RP-080099	2284		Addition of RRC test case 6.1.1.8 to HSU_ENH_r6 ATS V6.4.0	В	6.5.0	6.6.0	R5s070524
RP-39	RP-080092	2285		Summary of regression errors in wk49 ATS	F	6.5.0	6.6.0	R5s070562
RP-39	RP-080092	2286		Summary of regression errors in wk49 ATS	F	6.5.0	6.6.0	R5s070600
RP-39	RP-080099	2287		Addition of RRC test case 8.3.3.4 to HSU_ENH_r6 ATS	В	6.5.0	6.6.0	R5s070508
RP-39	RP-080099	2288		Addition of GCF WI-25 EDCH RRC test case 8.2.2.49	В	6.5.0	6.6.0	R5s070504
RP-39	RP-080099	2289		Addition of GCF WI-024 test case 6.2.1.10 to HSU ENH r6 ATS V6.5.0.	В	6.5.0	6.6.0	R5s070273
RP-39	RP-080099	2290		Addition to MBMS RRC test case 8.5.5.7	В	6.5.0	6.6.0	R5s070598
RP-39	RP-080099	2291		Addition of GCF WI 49 MBMS RRC test case 8.5.1.12		6.5.0	6.6.0	R5s070563
RP-39	RP-080099	2292			В	6.5.0	6.6.0	R5s070569
RP-39	RP-080092	2293		Summary of regression errors in wk49 ATS	F	6.5.0	6.6.0	R5s070591
RP-39	RP-080099	2294		Addition of GCF WI-25 EDCH RRC test case 8.2.1.36a	В	6.5.0	6.6.0	R5s070594
RP-39	RP-080099	2295		Addition of RRC test case 8.1.1.11 to HSU_ENH_r6 ATS	В	6.5.0	6.6.0	R5s070530
RP-39	RP-080099	2296	<u> </u>		В	6.5.0	6.6.0	R5s070528
RP-39	RP-080099	2297		Addition of GCF WI 49 MBMS RRC test case 8.5.4.1	В	6.5.0	6.6.0	R5s070573
RP-39	RP-080100	2298		Addition of GCF WI-25 EDCH RRC test case 8.2.6.52		6.5.0	6.6.0	R5s070522
RP-39	RP-080100	2299		Addition of GCF WI 49 MBMS RRC test case 8.5.5.4	В	6.5.0	6.6.0	R5s070588
RP-39	RP-080100	2300	<u> </u>	Addition of GCF WI 49 MBMS RRC test case 8.5.1.13		6.5.0	6.6.0	R5s070565
RP-39	RP-080100	2301		Addition of GCF WI 49 MBMS RRC test case 8.5.1.9		6.5.0	6.6.0	R5s070582
RP-39	RP-080100	2302		Addition of GCF W149 MBMS RRC Testcase 8.1.2.18 to HSU_ENH_r6 ATS v6.5.0		6.5.0	6.6.0	R5s070575
RP-39	RP-080092	2303		Summary of regression errors in wk47 ATS	F	6.5.0	6.6.0	R5s070520

Meet-	TSG doc	CR	Rev	Subject	Cat		New	WG doc
ing	DD 000100	2204		Addition of GCF WI 49 MBMS RRC test case 8.5.1.11	D	vers	vers	DE-070567
	RP-080100	2304				6.5.0	6.6.0	R5s070567
	RP-080100	2305		Addition of GCF WI 49 MBMS RRC test case 8.5.1.3	В	6.5.0	6.6.0	R5s070516
	RP-080100 RP-080100	2306 2307		Correction to GCF WI-25 Test Case 8.2.2.47 Addition of GCF WI 25 EDCH RRC test case	F B	6.5.0 6.5.0	6.6.0	R5s070521 R5s070510
DD 00	DD 000400	0000		8.3.1.42a	_	0.5.0	0.00	DE-070540
	RP-080100	2308		Addition of GCF WI-25 EDCH RRC test case 8.3.1.43		6.5.0	6.6.0	R5s070512
	RP-080100 RP-080100	2309 2310		Addition of GCF WI 25 EDCH RAB test case 14.7.3 Addition of GCF WI 25 EDCH RRC test case	B B	6.5.0 6.5.0	6.6.0	R5s070559 R5s070557
				8.2.2.47a				
	RP-080100	2311		Addition of GCF WI-25 EDCH RRC test case 8.3.1.42		6.5.0	6.6.0	R5s070499
	RP-080094	2312		TTCN Correction in testcase 8.3.1.34	F	6.5.0	6.6.0	R5s070497
	RP-080100	2313		Addition of GCF WI-25 EDCH RRC Testcase 8.1.2.17 to HSU_ENH_r6 ATS v6.4.0	В	6.5.0	6.6.0	R5s070514
	RP-080100	2314		Addition of GCF WI 49 MBMS RRC test case 14.4.5	В	6.5.0	6.6.0	R5s070518
RP-39	RP-080100	2315		Addition of GCF WI-24 Network Sharing test case 6.1.2.11 to HSU_ENH_r6 ATS v6.4.0	В	6.5.0	6.6.0	R5s070501
RP-39	RP-080100	2316		Addition of GCF WI-25 EDCH RRC test case 8.2.2.44a	В	6.5.0	6.6.0	R5s070506
RP-39	RP-080100	2317		Summary of regression errors in the wk43 InterRAT ATSs.	F	6.5.0	6.6.0	R5s070486
RP-39	RP-080092	2318		TTCN Correction in testcase 8.4.1.42	F	6.5.0	6.6.0	R5s070498
	RP-080092	2319		Correction to the TTCN to update ASP	F	6.5.0	6.6.0	R5s070496
10 33	111 -000032	2010		G_CL1_ComingFN_REQ		0.5.0	0.0.0	1103070430
RP-39	RP-080092	2320		Summary of regression errors in wk43 ATS	F	6.5.0	6.6.0	R5s070280
	RP-080100	2321		Corrections to GCF WI-24 Network Sharing test case 6.2.2.4	F	6.5.0	6.6.0	R5s070494
RP-39	RP-080092	2322		Summary of regression errors in wk43 ATS	F	6.5.0	6.6.0	R5s070495
	RP-080092	2323		Correction to testcase 8.2.6.37, 8.2.6.37b & 8.3.4.3	F.	6.5.0	6.6.0	R5s070485
	RP-080100	2324		Addition of MBMS RAB test case 14.4.7	В	6.5.0	6.6.0	R5s070233
	RP-080101	2325		Addition of MBMS RAB test case 14.4.6	В	6.5.0	6.6.0	R5s070241
	RP-080101	2326		Addition of MBMS RRC test case 8.5.1.5	В	6.5.0	6.6.0	R5s070252
	RP-080101	2327		Addition of MBMS RRC test case 8.5.1.4	В	6.5.0	6.6.0	R5s070250
	RP-080101	2328		Addition of MBMS RRC test case 8_5_4_3		6.5.0	6.6.0	R5s080010
	RP-080101	2329		Addition of GCF WI 49 RRC MBMS test case 8.5.2.2	В	6.5.0	6.6.0	R5s080008
RP-39	RP-080092	2330		Summary of regression errors in wk03 ATS	F	6.5.0	6.6.0	R5s080035
RP-39	RP-080092	2331		Correction to GCF WI-10 RRC Testcase 8.4.1.42	F	6.5.0	6.6.0	R5s080023
	RP-080101	2332		Addition of GCF WI 25 HSUPA RAB test case 14.7.7	В	6.5.0	6.6.0	R5s080033
	RP-080101	2333		Addition of GCF WI 25 HSUPA RAB test case 14.7.6	В	6.5.0	6.6.0	R5s080031
	RP-080092	2334		TTCN Correction in testcase 8.1.1.9	F	6.5.0	6.6.0	R5s080028
	RP-080094	2335		TTCN Correction in testcase 8.1.6.5	F	6.5.0	6.6.0	R5s080024
	RP-080092	2336		Correction to testcase 8.4.1.42	F	6.5.0	6.6.0	R5s080027
	RP-080092	2337		Correction to testcase 8.3.4.1 & 8.3.4.2	F	6.5.0	6.6.0	R5s080026
	RP-080092	2338		Correction to Interband Testcase 8.3.1.1a	F	6.5.0	6.6.0	R5s080022
	RP-080092 RP-080098	2339 2268		Correction to testcase 12.4.1.4c2 Production of pointer version 6.6.0 of TS 34.123-3	F	6.5.0 6.5.0	6.6.0	R5s080025 R5-080554
	KF-060096	2200		with no technical contents	Г			K3-060334
RP-39				Upgraded to Rel-7 without technical change (on request of RAN5)		6.6.0	7.0.0	
	RP-080430	2381		ASP corrections for Rel-7 test model		7.0.0	7.1.0	R5-081510
	RP-080429	2382		ASP improvement when configuring MICH and PICH		7.0.0	7.1.0	R5-081523
	RP-080363	2383		R99 TSO routine maintenance		7.0.0	7.1.0	R5-081058
	RP-080430	2384		PIXIT for UE LCS Notification timeout timer added		7.0.0	7.1.0	R5-081571
RP-40	RP-080370	2385		Guidance of test execution when Introducing Operating Bands XII, XIII and XIV		7.0.0	7.1.0	R5-081536
RP-40	RP-080366	2340		CR to 34.123-3: Add new verified and e-mail agreed TTCN test cases in the TC lists in 34.123-3 (prose), Annex A		7.0.0	7.1.0	-
RP-40	RP-080367	2341		Addition of GCF WI 49 RRC MBMS test case 8.5.2.3		7.0.0	7.1.0	R5s080016
	RP-080367	2342		Addition of GCF WI 49 MBMS RRC test case 8.5.5.8		7.0.0	7.1.0	R5s080018
	RP-080367	2343		Addition of GCF WI 49 MBMS test case 7.2.4.2		7.0.0	7.1.0	R5s080020
	RP-080367	2344		Addition to MBMS RLC test case 7.2.4.3		7.0.0	7.1.0	R5s080029
	RP-080367	2345		Addition of GCF WI 49 MBMS RRC test case 8.5.4.2		7.0.0	7.1.0	R5s080038
	RP-080367	2346		Addition of GCF WI 49 RRC MBMS test case 12.9.16		7.0.0	7.1.0	R5s080041
	RP-080367	2347		Addition of GCF WI 49 MBMS RRC test case 8.5.3.1		7.0.0	7.1.0	R5s080043
	RP-080367	2348		Addition of GCF WI 24 RRC test case 8.1.1.6a		7.0.0	7.1.0	R5s080050
	RP-080367	2349		Addition of InterRAT test case 8.3.7.1a		7.0.0	7.1.0	R5s080053
	RP-080367	2350		Addition of GCF WI-49-MBMS RRC test case 8.5.6.1		7.0.0	7.1.0	R5s080047
	RP-080367	2351		Addition of E-DCH MAC test case 7.1.6.4.1 to HSU_ENH_r6 ATS		7.0.0	7.1.0	R5s080060
	RP-080367	2352		Addition of GCF WI 49 MBMS NAS test case 11.8.2		7.0.0	7.1.0	R5s080065
RP-40	RP-080367 RP-080367	2353 2354		Addition of GCF WI 49 RRC MBMS test case 8.5.3.3 Addition of GCF WI 49 MBMS RRC test case 8.5.2.4		7.0.0	7.1.0 7.1.0	R5s080080 R5s080083

Meet-	TSG doc	CR	Rev	Subject	Cat	Old	New	WG doc
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RP-40	RP-080367	2355		Addition of MBMS RAB test case 14.6.10		7.0.0	7.1.0	R5s080088
RP-40	RP-080367	2356		Addition of MBMS RAB test case 14.6.9 and 14.6.10		7.0.0	7.1.0	R5s080086
RP-40	RP-080367	2357		Correction to Selection Expression for test cases 16.1.9.1 and 16.1.9.2		7.0.0	7.1.0	R5s080037
RP-40	RP-080367	2358		Correction to Testcase selection expressions of 8.1.7.1c, 8.2.6.39, 8.2.6.44, 8.3.1.25, 8.3.1.30, 8.2.3.36		7.0.0	7.1.0	R5s080040
RP-40	RP-080367	2359		Correction to GCF WI-14 HSDPA RRC Testcase 8.2.2.42		7.0.0	7.1.0	R5s080045
RP-40	RP-080367	2360		Correction to GCF WI-14 HSDPA RRC Testcase 8.2.3.33		7.0.0	7.1.0	R5s080046
RP-40	RP-080368	2361		TTCN Correction in testcases 8.1.1.7, 8.1.1.8, 8.1.1.10		7.0.0	7.1.0	R5s080049
RP-40	RP-080368	2362		Correction to Rel-5 RAB test cases		7.0.0	7.1.0	R5s080052
RP-40	RP-080368	2363		Summary of regression errors in wk07 ATS		7.0.0	7.1.0	R5s080055
RP-40	RP-080368	2364		Correction to GCF WI-49 MBMS RRC test case 8.5.1.5		7.0.0	7.1.0	R5s080057
RP-40	RP-080368	2365		Summary of regression errors in wk07 MBMS ATS		7.0.0	7.1.0	R5s080058
RP-40	RP-080368	2366		Correction to E-DCH RRC testcase 8.2.6.52		7.0.0	7.1.0	R5s080059
RP-40	RP-080368	2367		Summary of regression errors in MBMS wk10 ATS		7.0.0	7.1.0	R5s080064
RP-40	RP-080368	2368		Summary of regression errors in wk10 ATS		7.0.0	7.1.0	R5s080062
RP-40	RP-080368	2369		Correction of UE radio access capability extension		7.0.0	7.1.0	R5s080070
RP-40	RP-080368	2370		Summary of regression errors in 08wk10 MBMS ATS		7.0.0	7.1.0	R5s080071
RP-40	RP-080368	2371		Correction to Selection Expression for test cases 9.4.5.2, 9.5.2, 9.5.4, 9.5.5 and 9.5.7.1		7.0.0	7.1.0	R5s080075
RP-40	RP-080368	2372		ASP update for Explicit TFC restriction		7.0.0	7.1.0	R5s080068
RP-40	RP-080368	2373		Correction to RAB test cases		7.0.0	7.1.0	R5s080056
RP-40	RP-080368	2374		Correction of handling of Structured Type- and Tabular Pdu types constraints in all 3GPP UMTS ATSs.		7.0.0	7.1.0	R5s080069
RP-40	RP-080368	2375		Configuration of associated physical channels.		7.0.0	7.1.0	R5s080074
RP-40	RP-080368	2376		Correction to MICH configuration.		7.0.0	7.1.0	R5s080076
RP-40	RP-080368	2377		Summary of regression errors in D08wk10 for GCF WI-025		7.0.0	7.1.0	R5s080082
RP-40	RP-080368	2378		Baseline upgrade to March-08 Rel-7		7.0.0	7.1.0	R5s080067
RP-40	RP-080368	2379		Correction to GCF WI-49 MBMS RRC test case 7.2.4.3		7.0.0	7.1.0	R5s080090
RP-40	RP-080368	2380		Correction to SMS test cases 16.2.1 and 16.2.2		7.0.0	7.1.0	R5s080079

History

Document history		
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